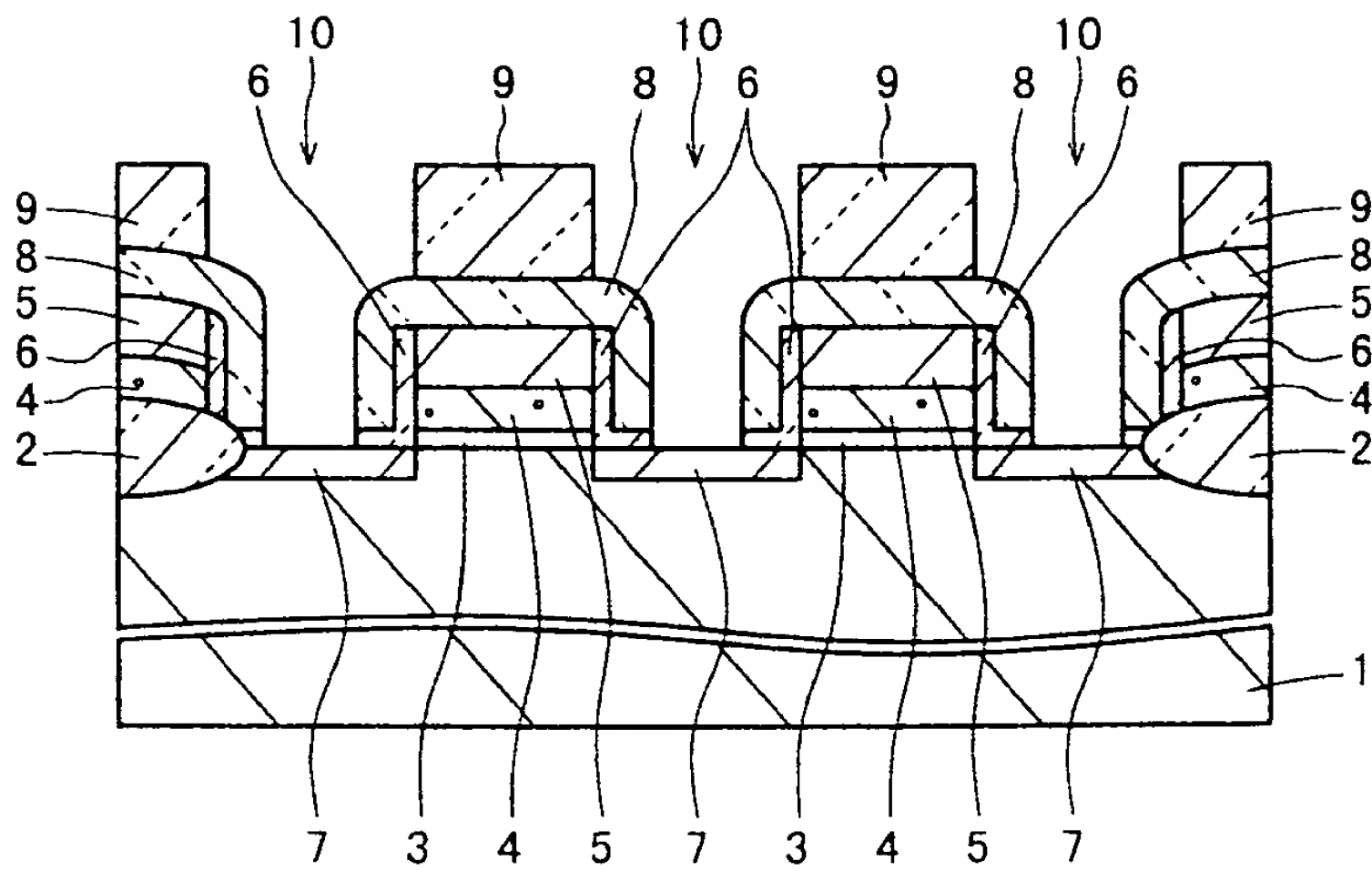
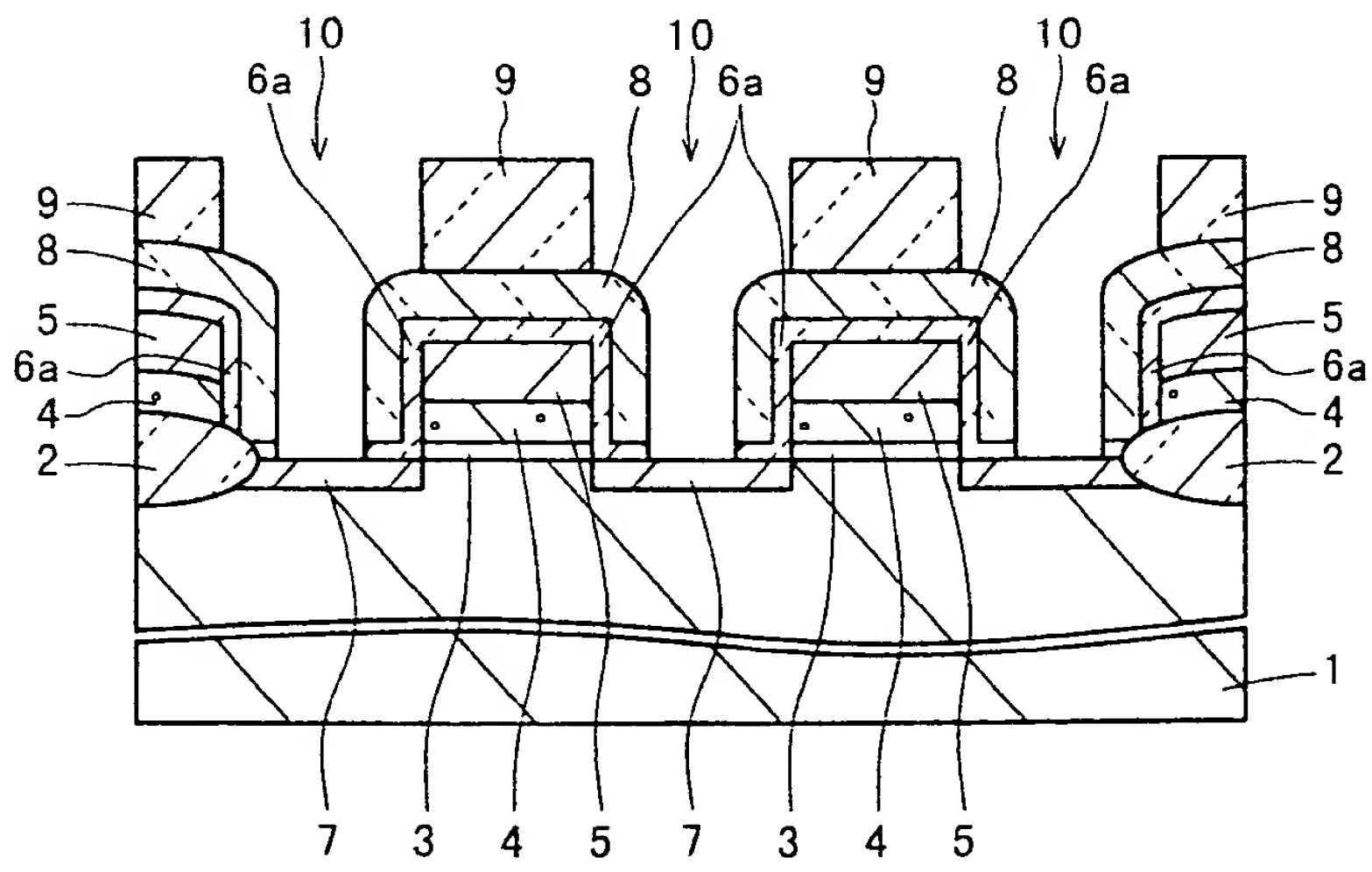


**FIG.1A**



**FIG.1B**



**FIG.2**

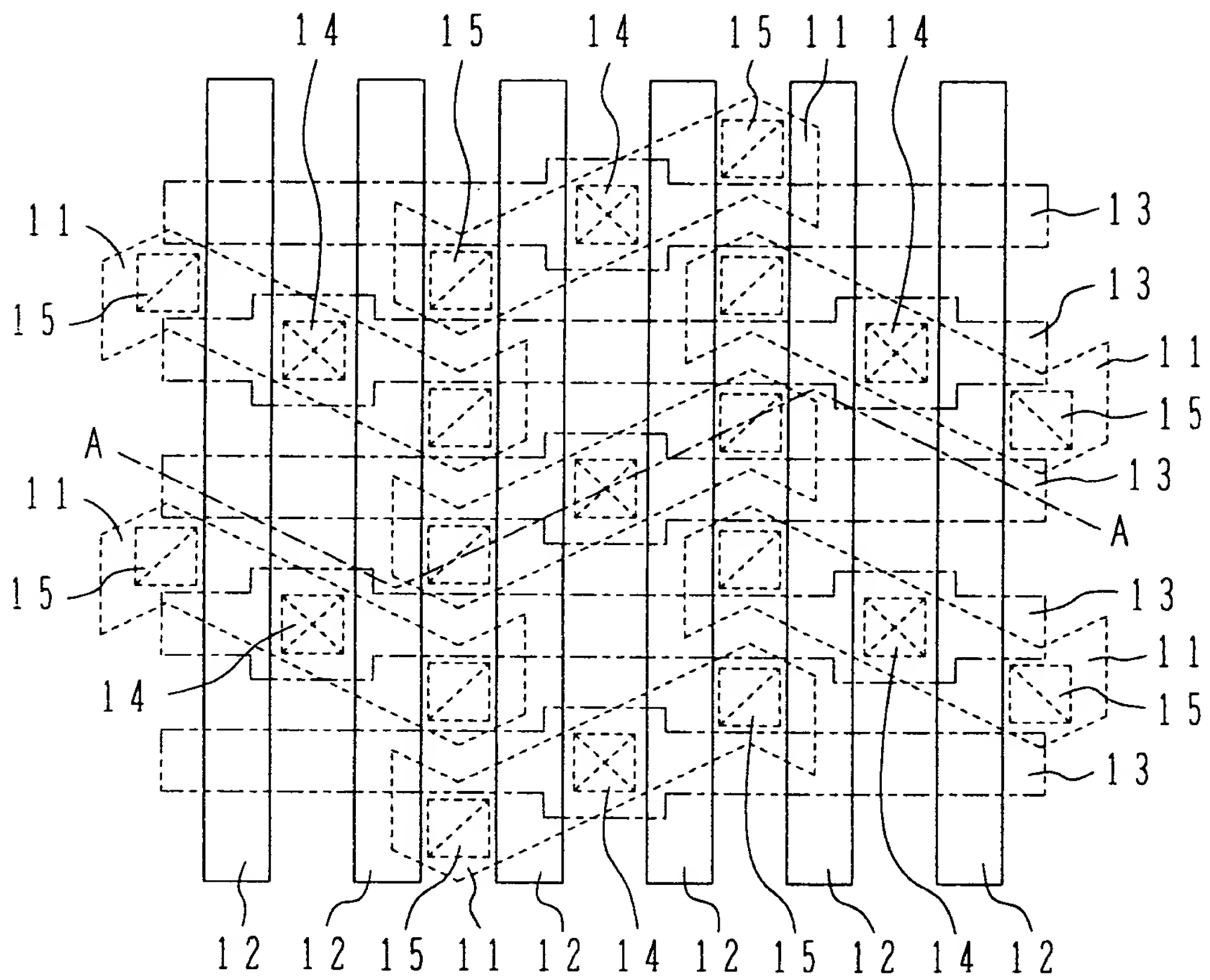


FIG. 3A

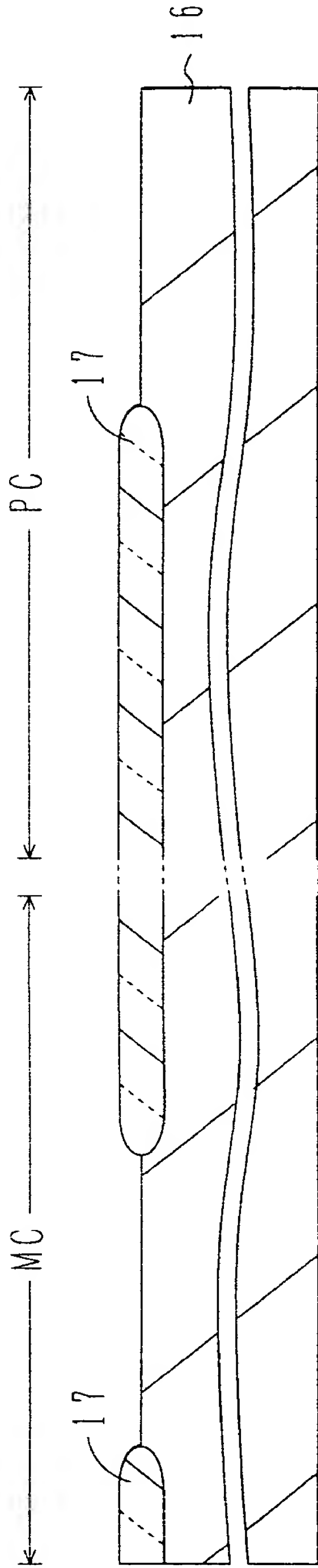
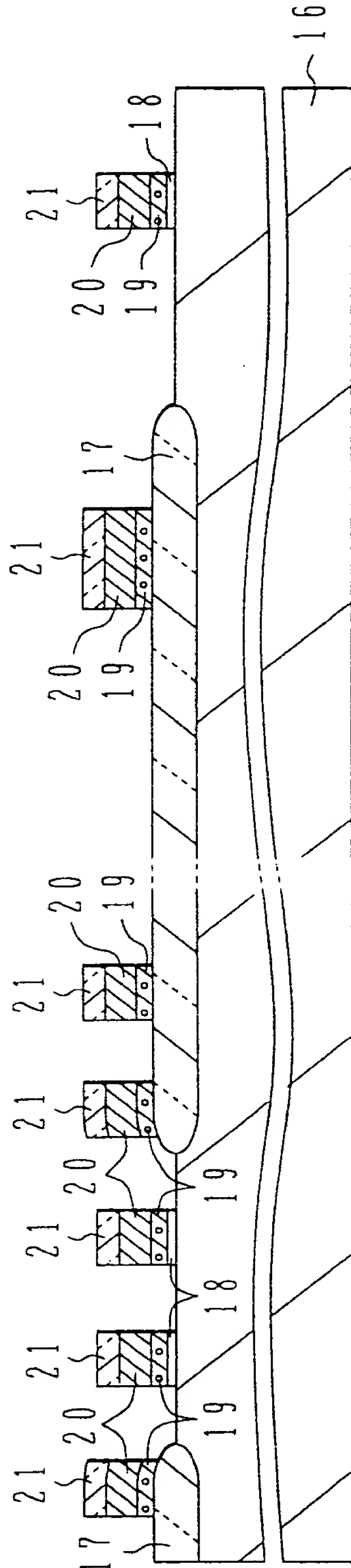
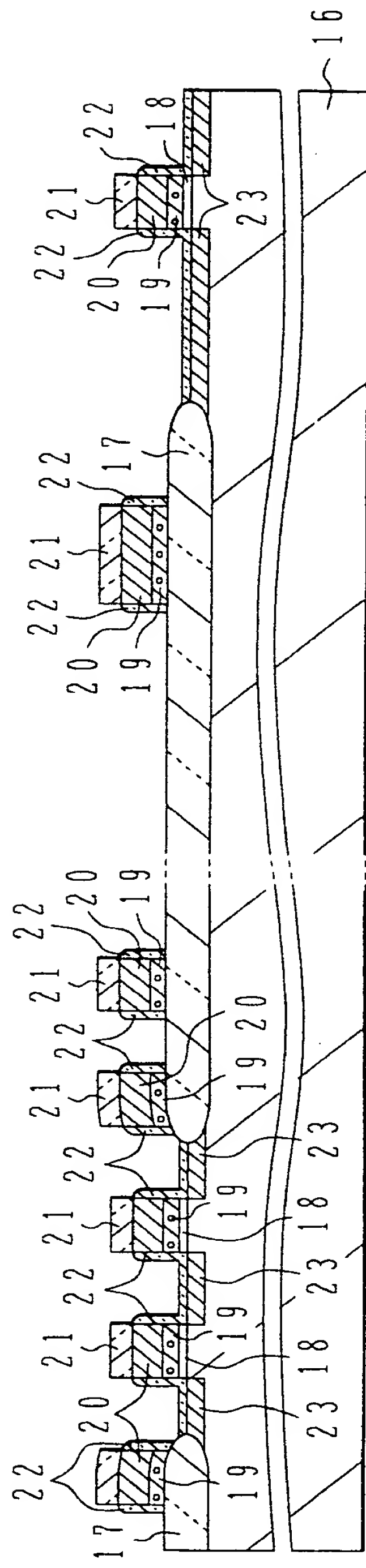


FIG. 3B



60796, 60798, 60799, 60800, 60801, 60802, 60803, 60804, 60805, 60806, 60807, 60808, 60809, 60810, 60811, 60812, 60813, 60814, 60815, 60816, 60817, 60818, 60819, 60820, 60821, 60822, 60823, 60824, 60825, 60826, 60827, 60828, 60829, 60830, 60831, 60832, 60833, 60834, 60835, 60836, 60837, 60838, 60839, 60840, 60841, 60842, 60843, 60844, 60845, 60846, 60847, 60848, 60849, 60850, 60851, 60852, 60853, 60854, 60855, 60856, 60857, 60858, 60859, 60860, 60861, 60862, 60863, 60864, 60865, 60866, 60867, 60868, 60869, 60870, 60871, 60872, 60873, 60874, 60875, 60876, 60877, 60878, 60879, 60880, 60881, 60882, 60883, 60884, 60885, 60886, 60887, 60888, 60889, 60890, 60891, 60892, 60893, 60894, 60895, 60896, 60897, 60898, 60899, 60900, 60901, 60902, 60903, 60904, 60905, 60906, 60907, 60908, 60909, 60910, 60911, 60912, 60913, 60914, 60915, 60916, 60917, 60918, 60919, 60920, 60921, 60922, 60923, 60924, 60925, 60926, 60927, 60928, 60929, 60930, 60931, 60932, 60933, 60934, 60935, 60936, 60937, 60938, 60939, 60940, 60941, 60942, 60943, 60944, 60945, 60946, 60947, 60948, 60949, 60950, 60951, 60952, 60953, 60954, 60955, 60956, 60957, 60958, 60959, 60960, 60961, 60962, 60963, 60964, 60965, 60966, 60967, 60968, 60969, 60970, 60971, 60972, 60973, 60974, 60975, 60976, 60977, 60978, 60979, 60980, 60981, 60982, 60983, 60984, 60985, 60986, 60987, 60988, 60989, 60990, 60991, 60992, 60993, 60994, 60995, 60996, 60997, 60998, 60999, 61000, 61001, 61002, 61003, 61004, 61005, 61006, 61007, 61008, 61009, 61010, 61011, 61012, 61013, 61014, 61015, 61016, 61017, 61018, 61019, 61020, 61021, 61022, 61023, 61024, 61025, 61026, 61027, 61028, 61029, 61030, 61031, 61032, 61033, 61034, 61035, 61036, 61037, 61038, 61039, 61040, 61041, 61042, 61043, 61044, 61045, 61046, 61047, 61048, 61049, 61050, 61051, 61052, 61053, 61054, 61055, 61056, 61057, 61058, 61059, 61060, 61061, 61062, 61063, 61064, 61065, 61066, 61067, 61068, 61069, 61070, 61071, 61072, 61073, 61074, 61075, 61076, 61077, 61078, 61079, 61080, 61081, 61082, 61083, 61084, 61085, 61086, 61087, 61088, 61089, 61090, 61091, 61092, 61093, 61094, 61095, 61096, 61097, 61098, 61099, 61100, 61101, 61102, 61103, 61104, 61105, 61106, 61107, 61108, 61109, 61110, 61111, 61112, 61113, 61114, 61115, 61116, 61117, 61118, 61119, 61120, 61121, 61122, 61123, 61124, 61125, 61126, 61127, 61128, 61129, 61130, 61131, 61132, 61133, 61134, 61135, 61136, 61137, 61138, 61139, 61140, 61141, 61142, 61143, 61144, 61145, 61146, 61147, 61148, 61149, 61150, 61151, 61152, 61153, 61154, 61155, 61156, 61157, 61158, 61159, 61160, 61161, 61162, 61163, 61164, 61165, 61166, 61167, 61168, 61169, 61170, 61171, 61172, 61173, 61174, 61175, 61176, 61177, 61178, 61179, 61180, 61181, 61182, 61183, 61184, 61185, 61186, 61187, 61188, 61189, 61190, 61191, 61192, 61193, 61194, 61195, 61196, 61197, 61198, 61199, 61200, 61201, 61202, 61203, 61204, 61205, 61206, 61207, 61208, 61209, 61210, 61211, 61212, 61213, 61214, 61215, 61216, 61217, 61218, 61219, 61220, 61221, 61222, 61223, 61224, 61225, 61226, 61227, 61228, 61229, 61230, 61231, 61232, 61233, 61234, 61235, 61236, 61237, 61238, 61239, 61240, 61241, 61242, 61243, 61244, 61245, 61246, 61247, 61248, 61249, 61250, 61251, 61252, 61253, 61254, 61255, 61256, 61257, 61258, 61259, 61260, 61261, 61262, 61263, 61264, 61265, 61266, 61267, 61268, 61269, 61270, 61271, 61272, 61273, 61274, 61275, 61276, 61277, 61278, 61279, 61280, 61281, 61282, 61283, 61284, 61285, 61286, 61287, 61288, 61289, 61290, 61291, 61292, 61293, 61294, 61295, 61296, 61297, 61298, 61299, 61300, 61301, 61302, 61303, 61304, 61305, 61306, 61307, 61308, 61309, 61310, 61311, 61312, 61313, 61314, 61315, 61316, 61317, 61318, 61319, 61320, 61321, 61322, 61323, 61324, 61325, 61326, 61327, 61328, 61329, 61330, 61331, 61332, 61333, 61334, 61335, 61336, 61337, 61338, 61339, 61340, 61341, 61342, 61343, 61344, 61345, 61346, 61347, 61348, 61349, 61350, 61351, 61352, 61353, 61354, 61355, 61356, 61357, 61358, 61359, 61360, 61361, 61362, 61363, 61364, 61365, 61366, 61367, 61368, 61369, 61370, 61371, 61372, 61373, 61374, 61375, 61376, 61377, 61378, 61379, 61380, 613

**FIG. 4A**



**FIG. 4B**

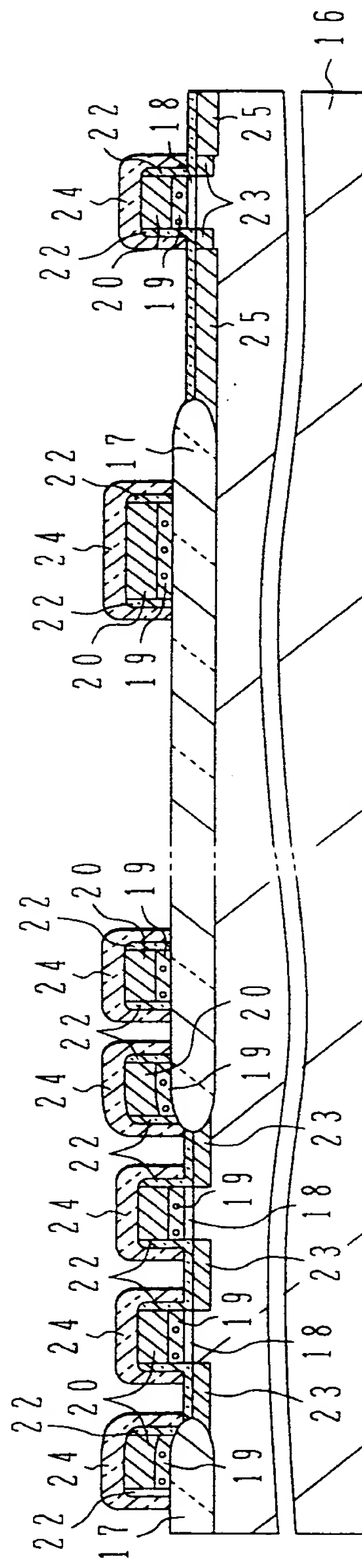


FIG. 5A

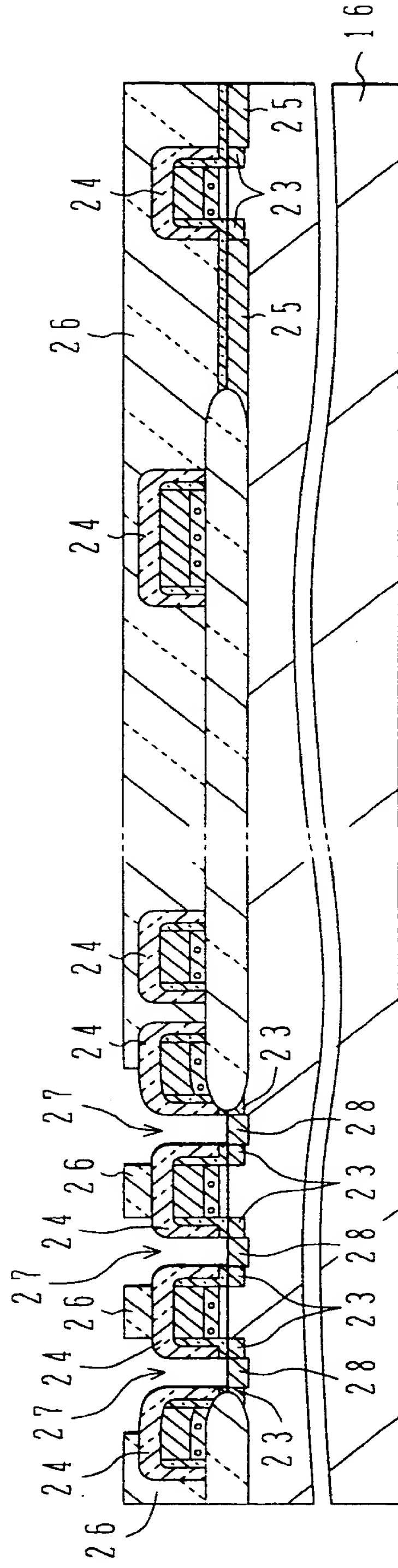
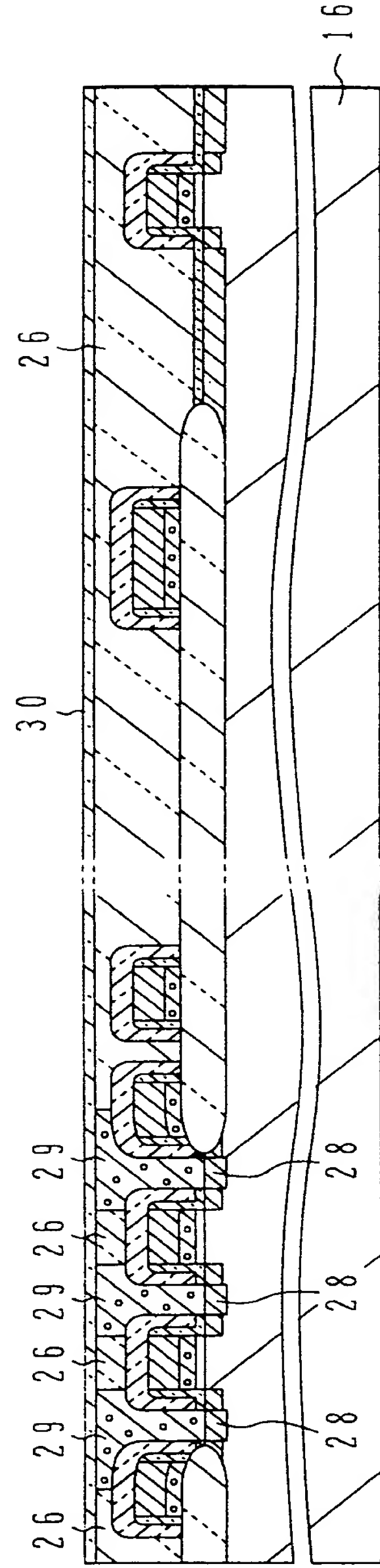
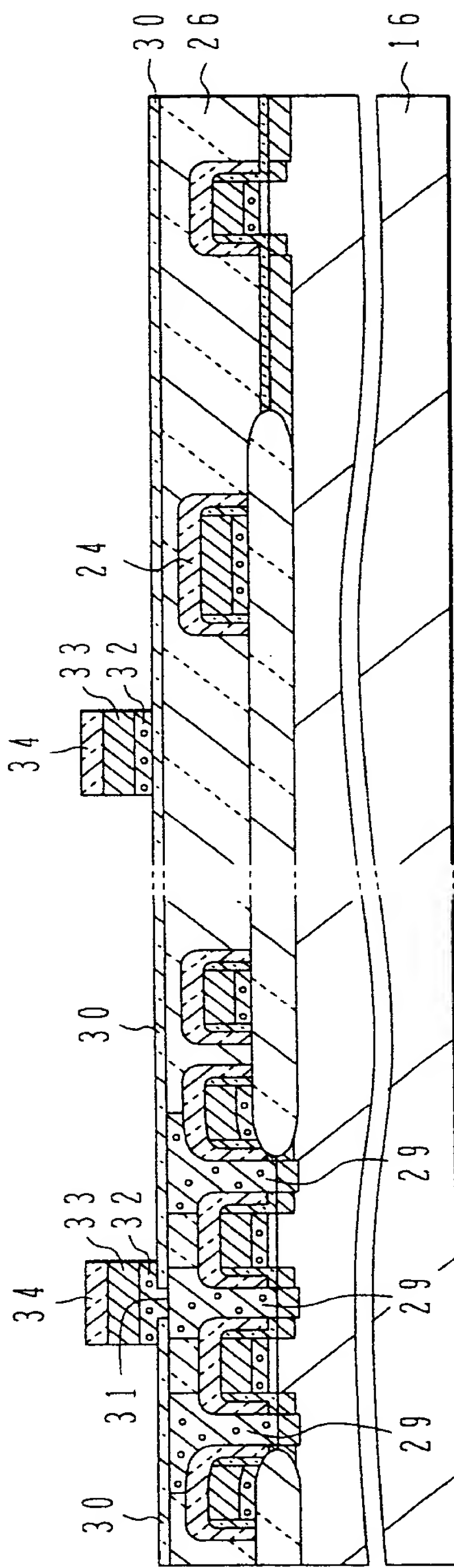
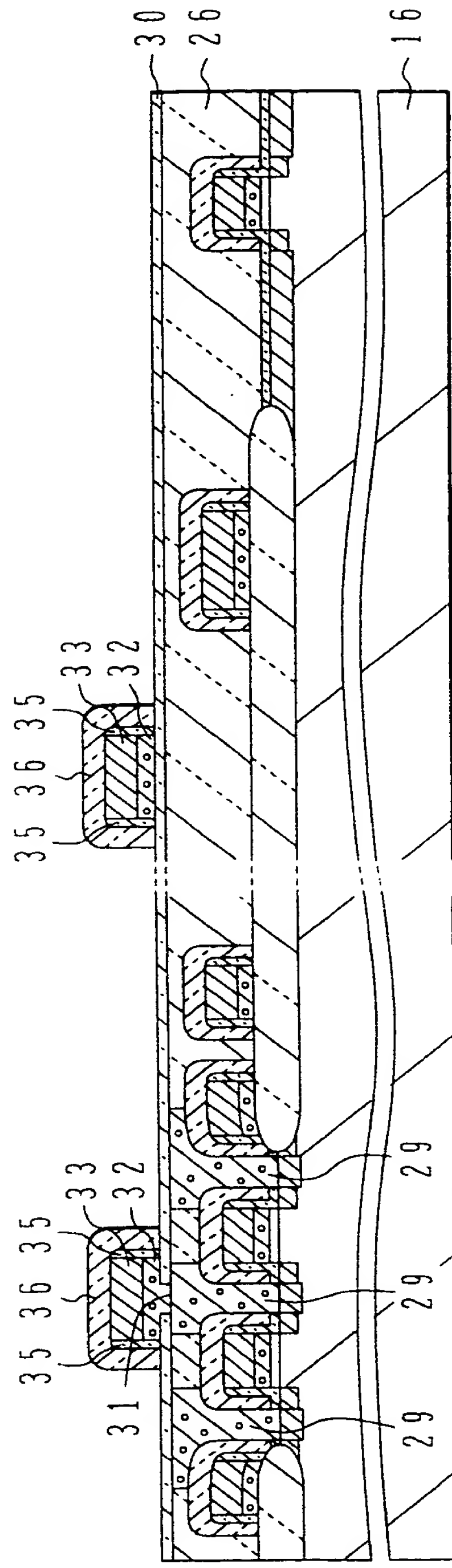


FIG. 5B





**FIG. 6B**



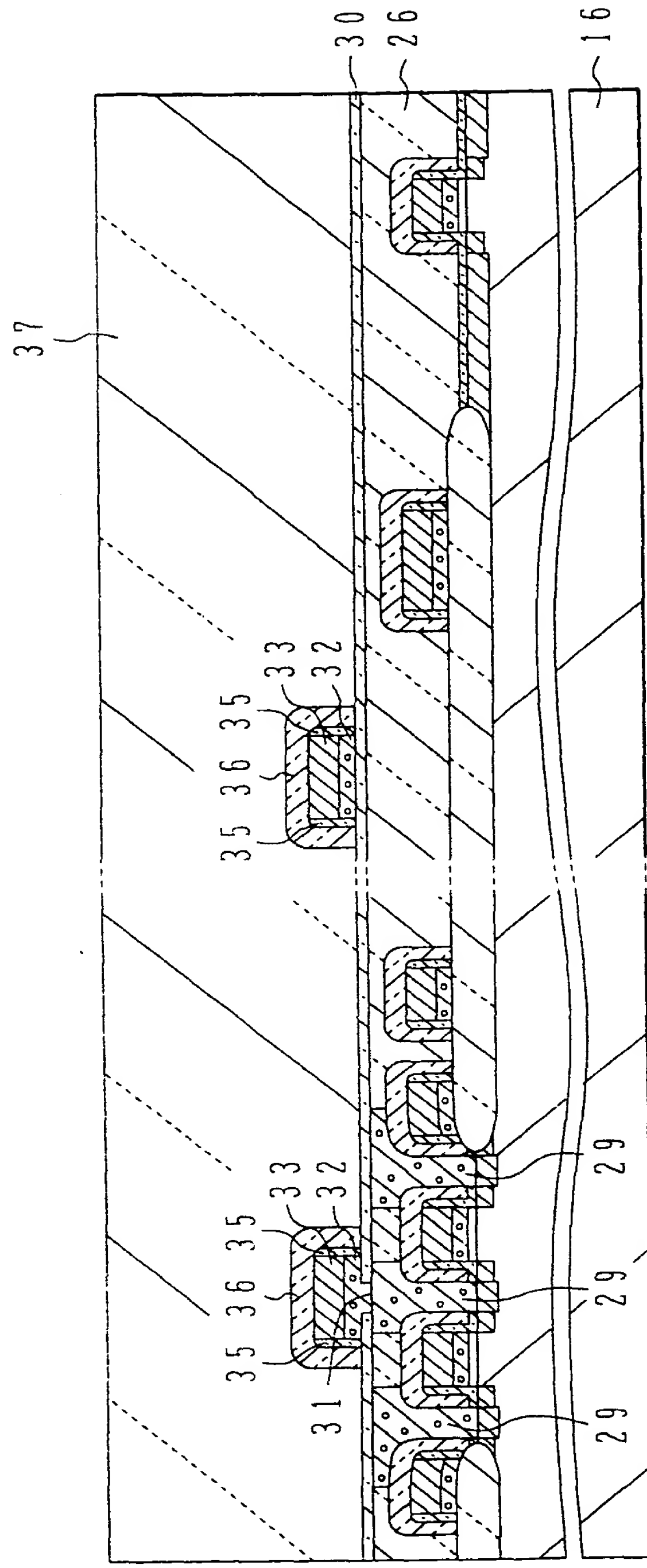
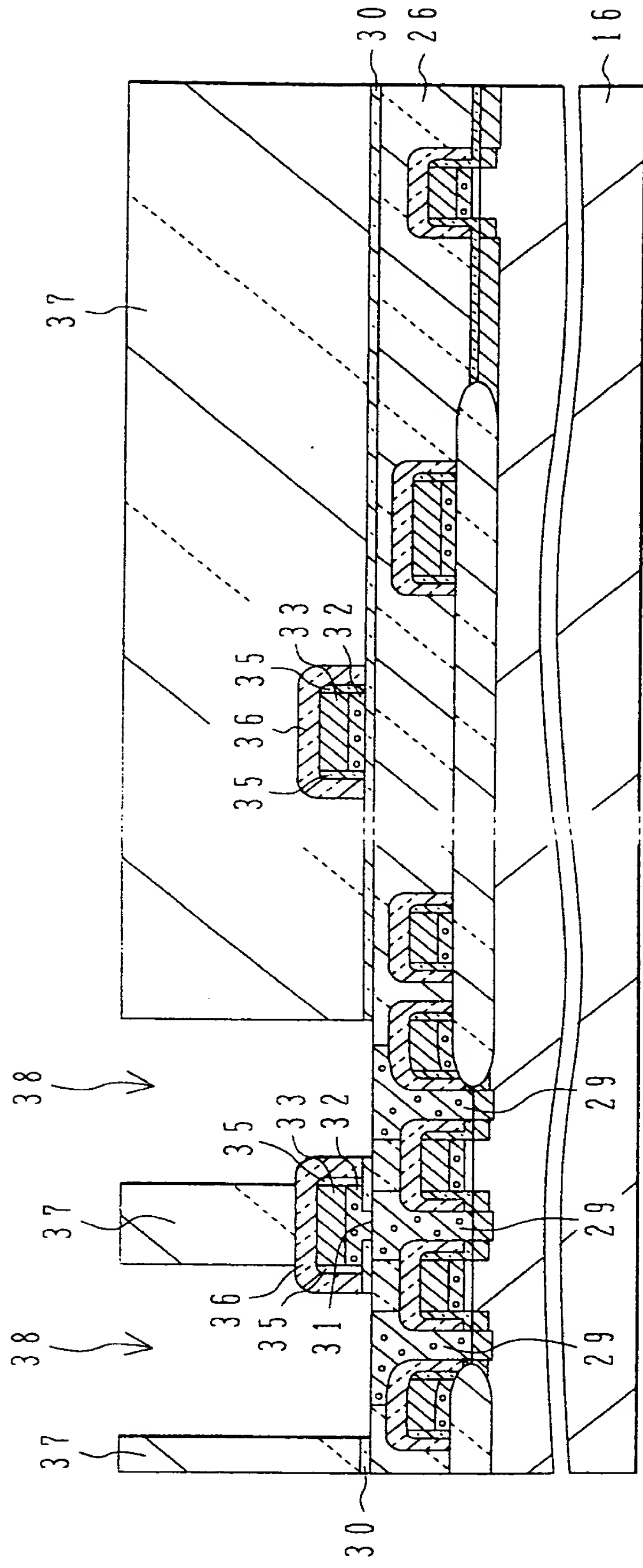


FIG.8





**FIG. 9**

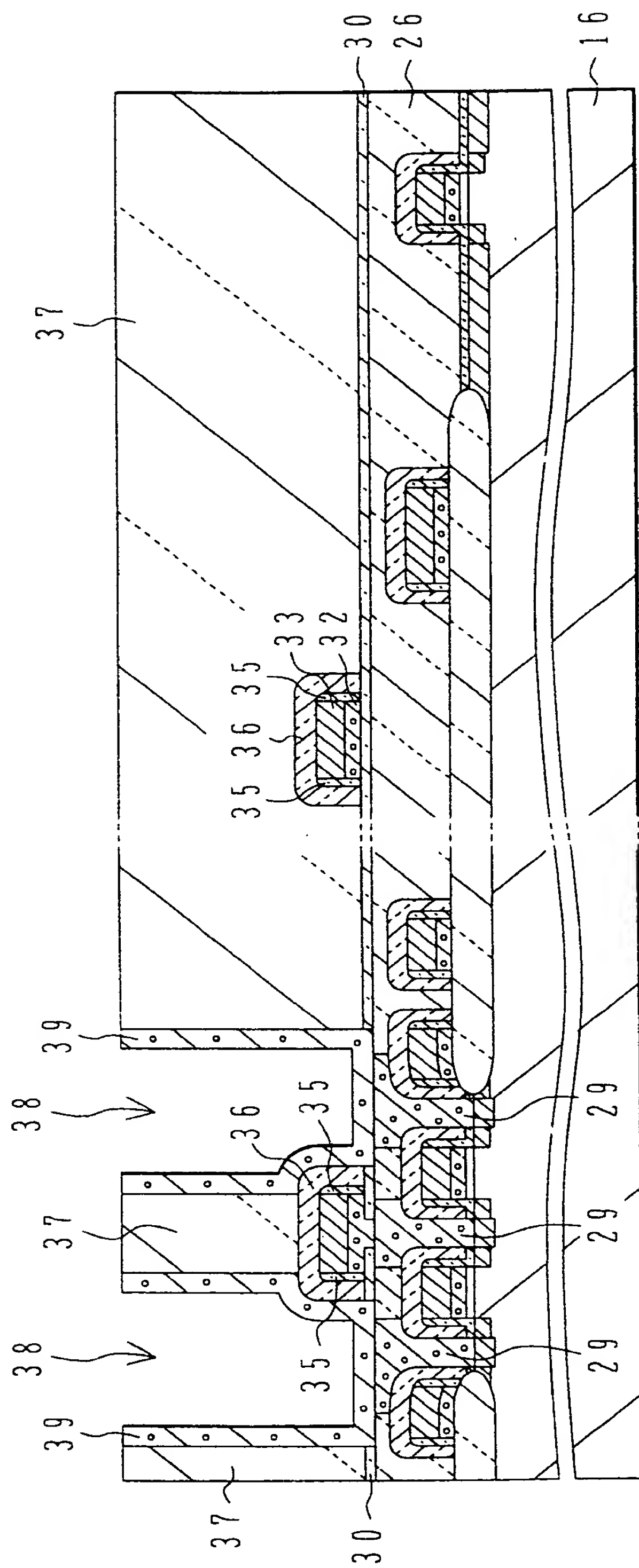
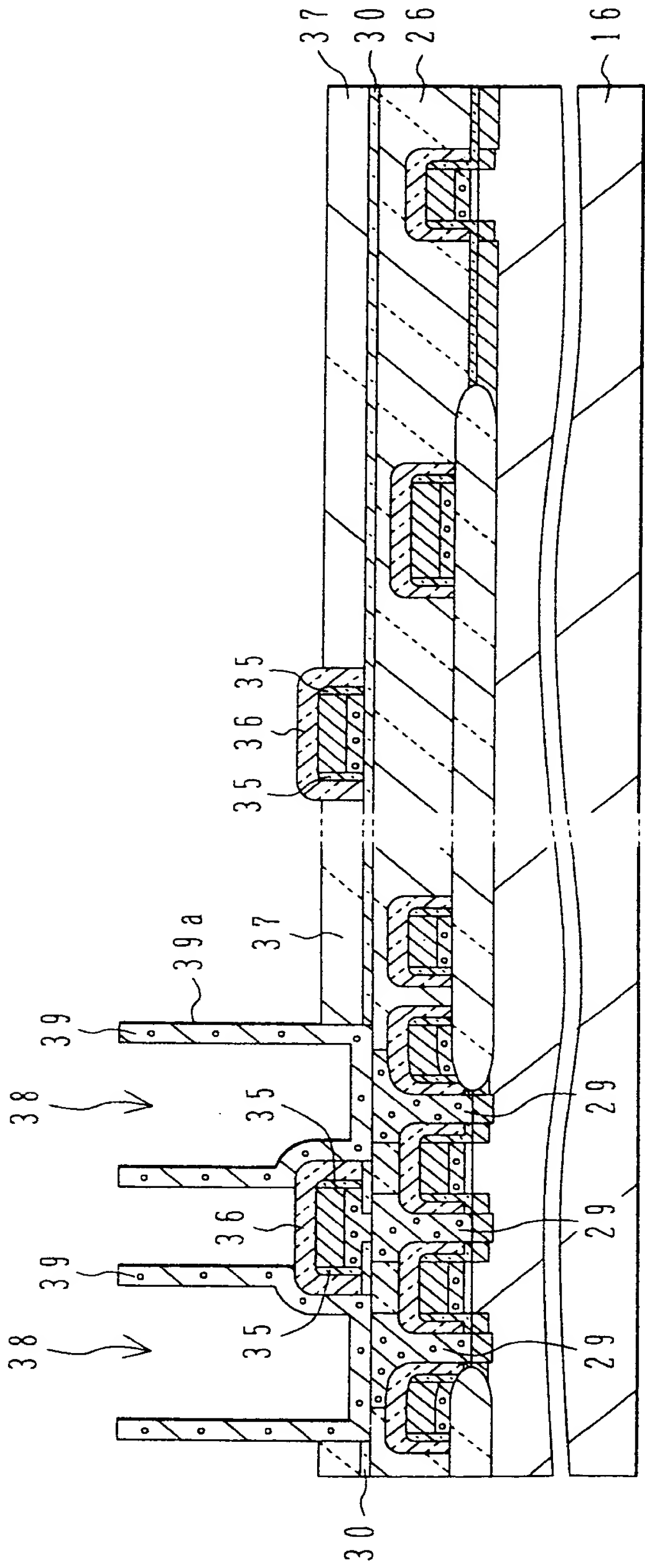
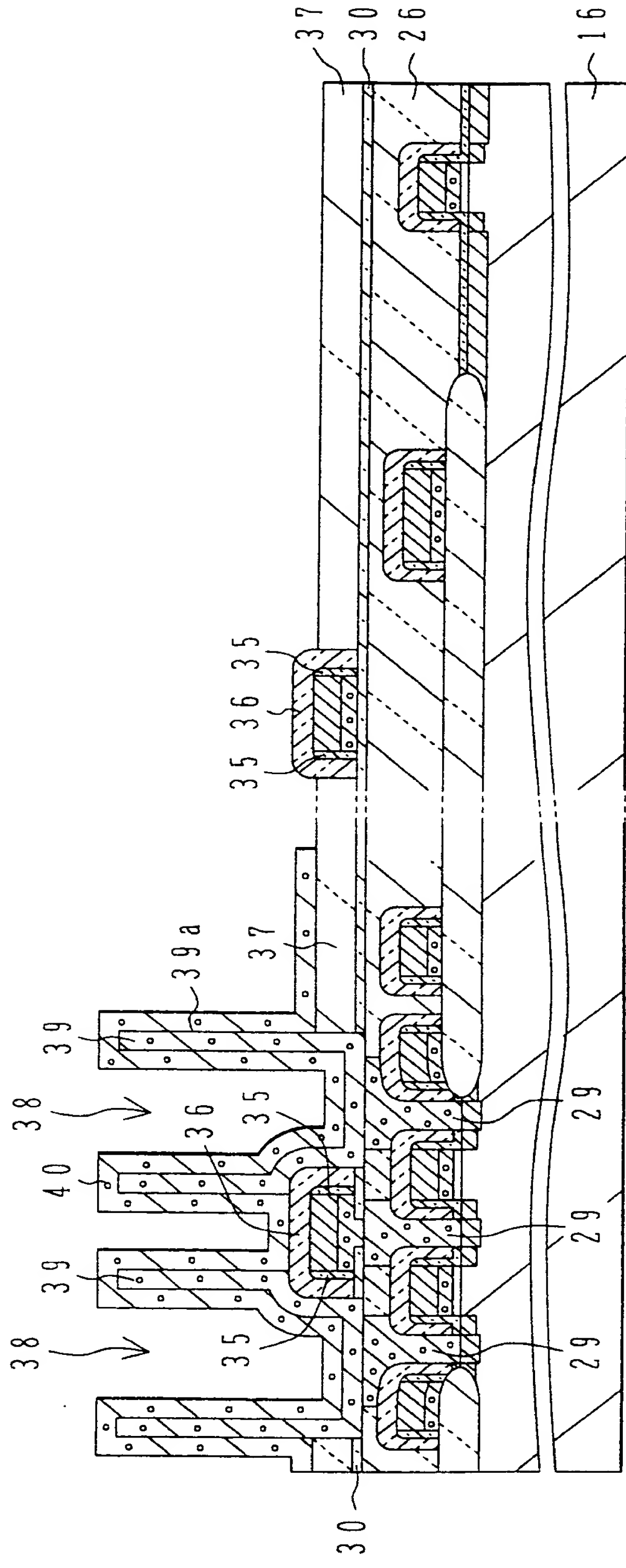


FIG. 10 is a cross-sectional view of the device 100 in a second state, where the device 100 is in a retracted position. The device 100 includes a housing 16, a base 26, and a plurality of pins 30. The pins 30 are arranged in a row and are connected to a common line 37. The pins 30 are shown in a retracted position, where they are not in contact with the base 26. The device 100 is shown in a cross-sectional view, with the housing 16 and base 26 shown in a hatched pattern. The pins 30 are shown in a solid pattern. The common line 37 is shown as a dashed line. The device 100 is shown in a second state, where the device 100 is in a retracted position. The device 100 includes a housing 16, a base 26, and a plurality of pins 30. The pins 30 are arranged in a row and are connected to a common line 37. The pins 30 are shown in a retracted position, where they are not in contact with the base 26. The device 100 is shown in a cross-sectional view, with the housing 16 and base 26 shown in a hatched pattern. The pins 30 are shown in a solid pattern. The common line 37 is shown as a dashed line.

FIG.10

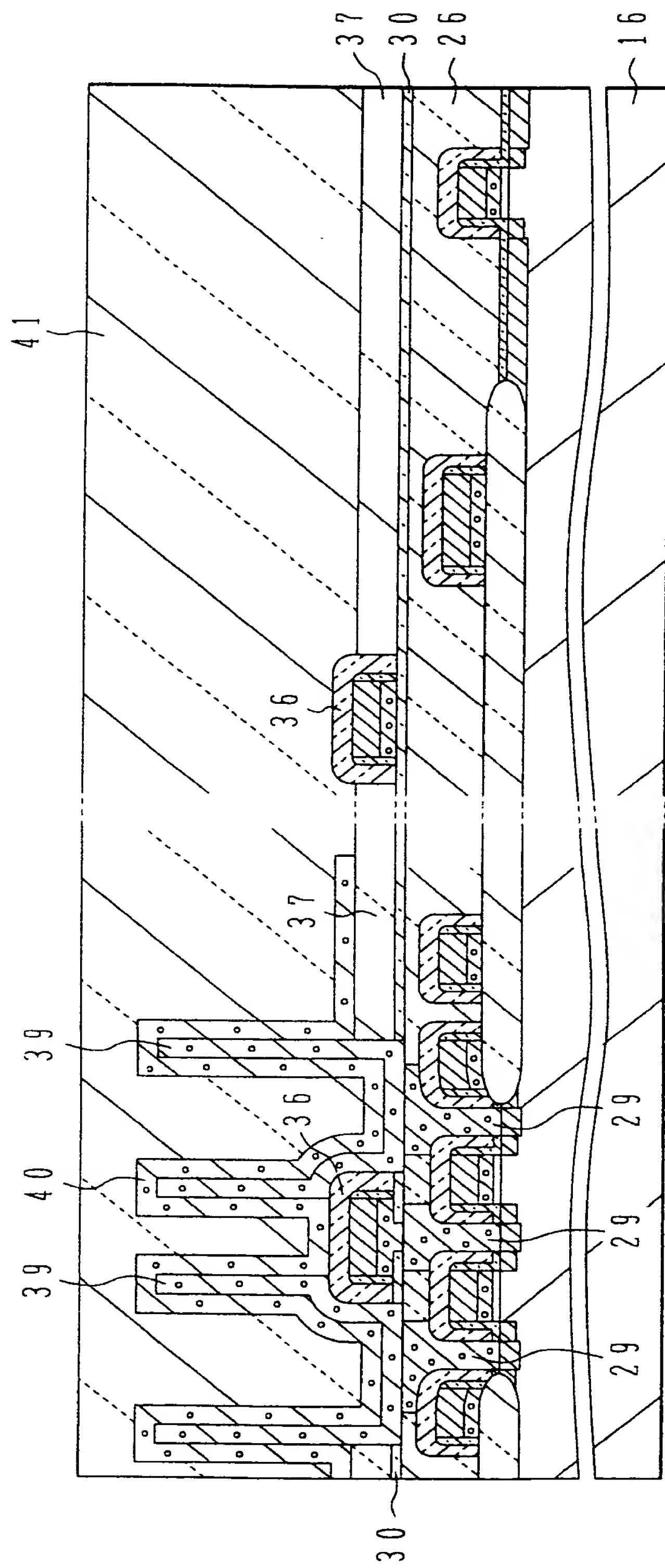


**FIG. 11**



[illegible]

**FIG. 12**





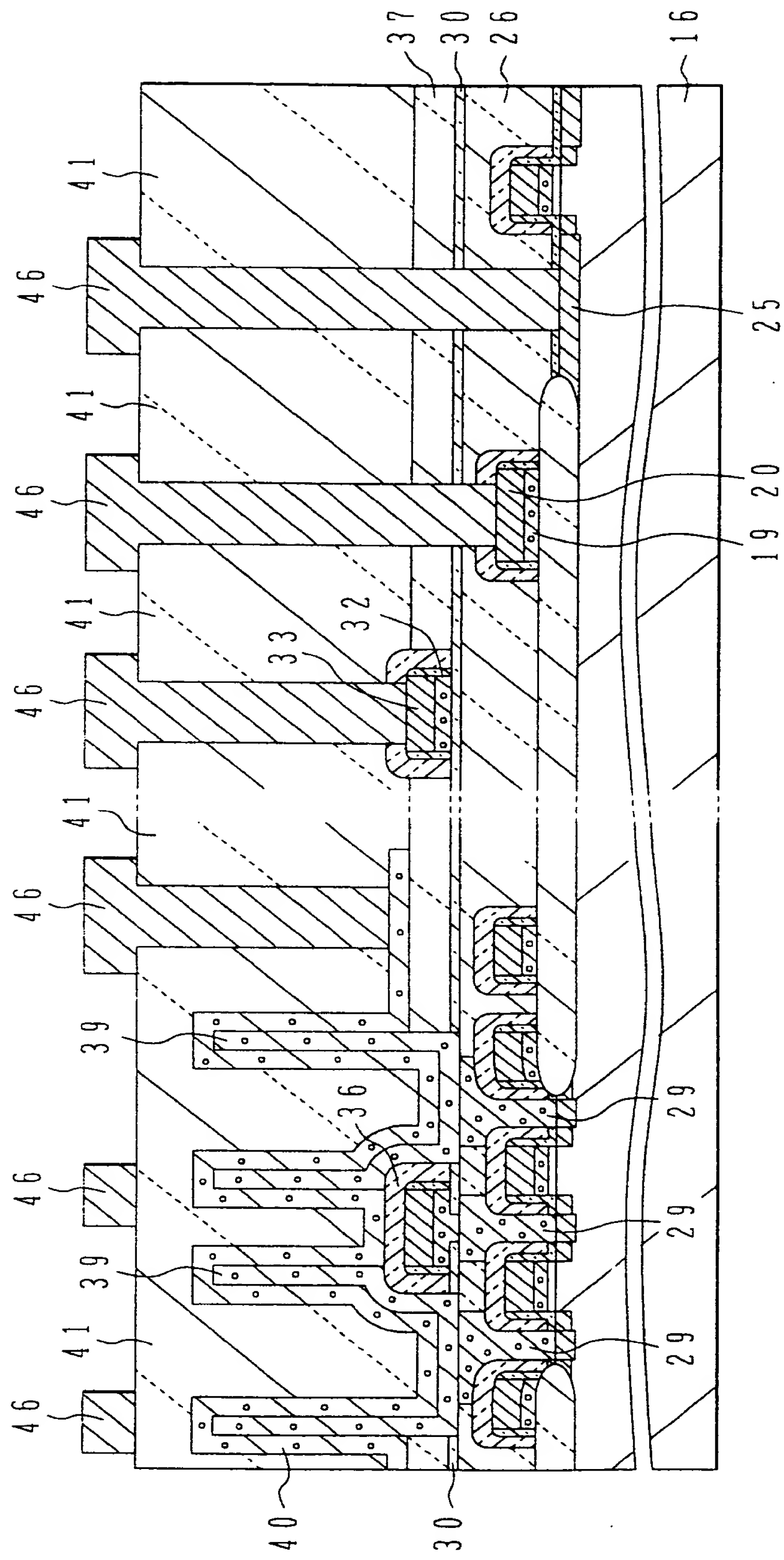


FIG. 15A

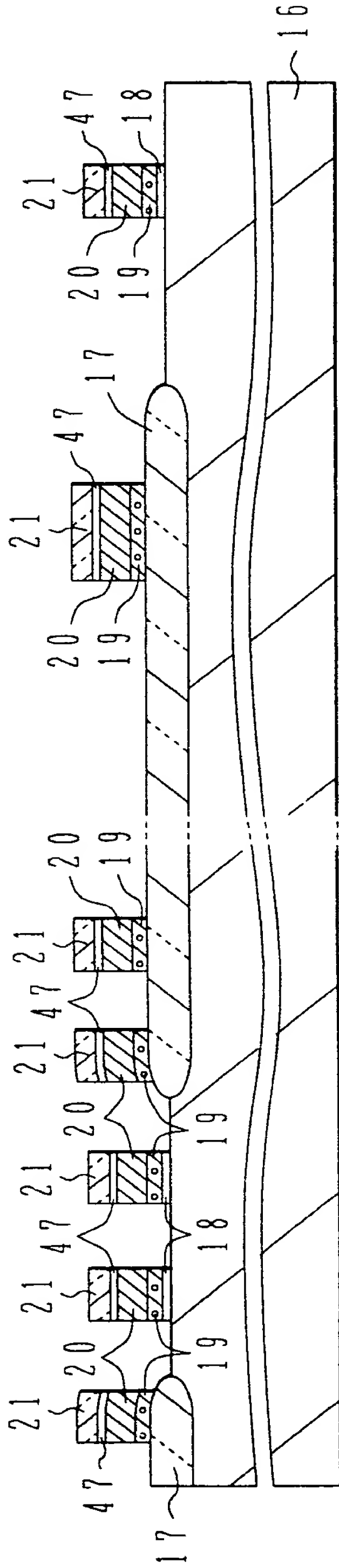


FIG. 15B

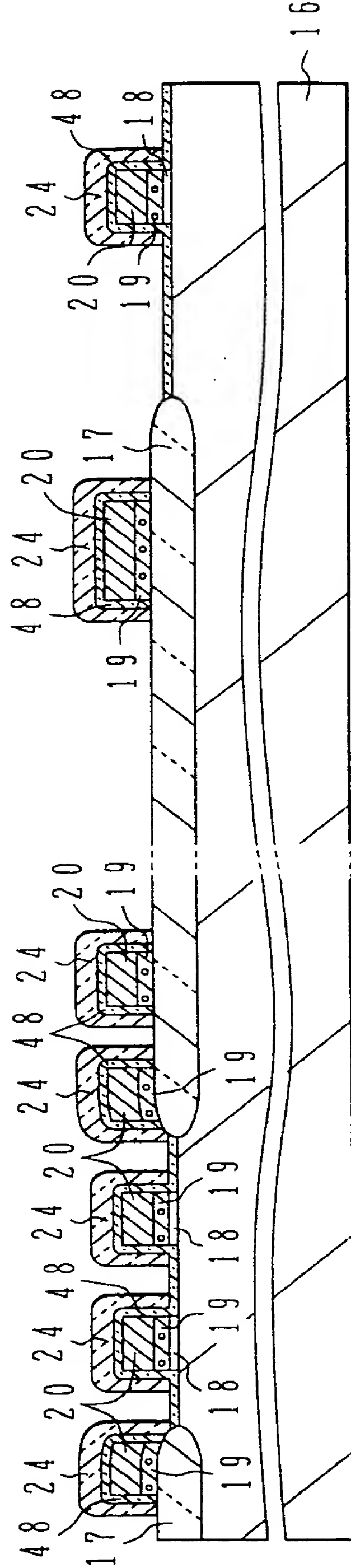


FIG.16A

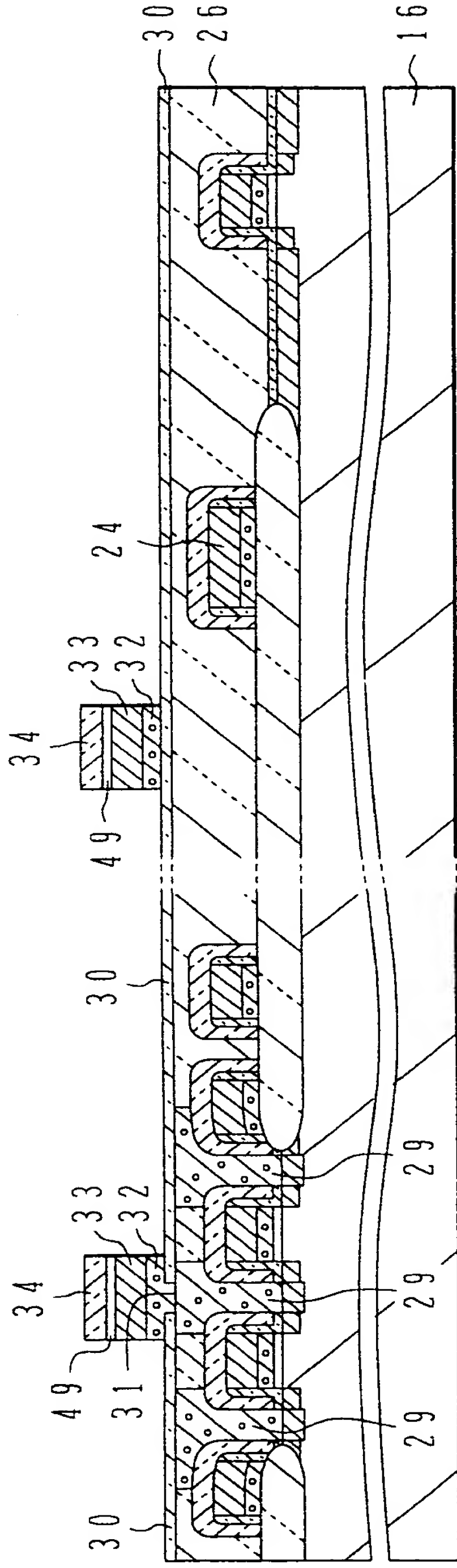


FIG.16B

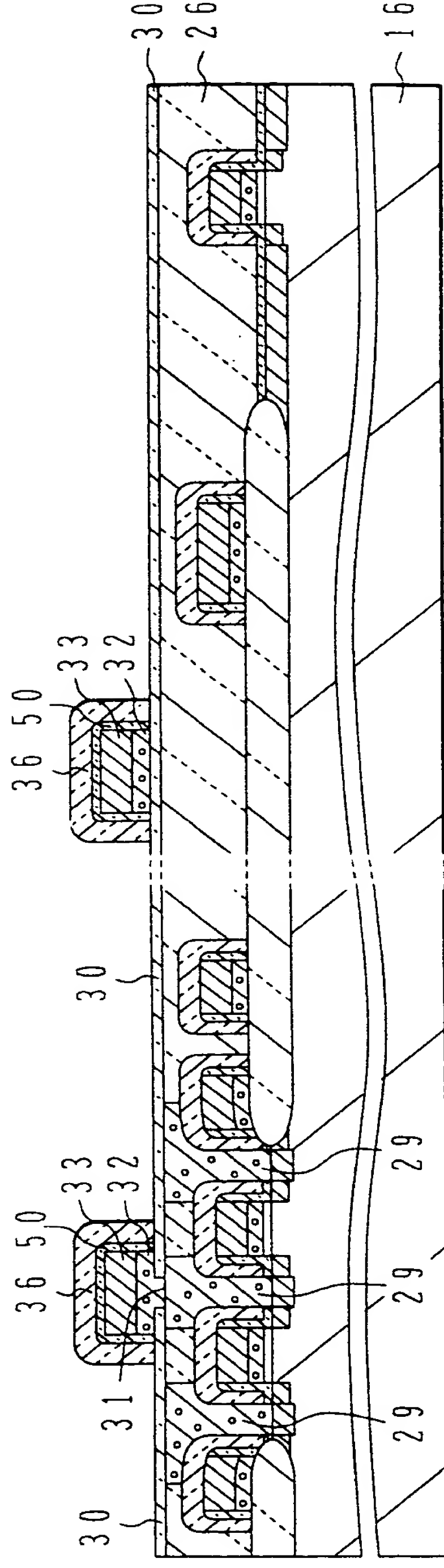




FIG. 17A is a cross-sectional view of a semiconductor device in a first state. The device includes a substrate 16, a gate stack 19, and a channel layer 20. The gate stack 19 is formed on the substrate 16 and includes a gate dielectric layer 18 and a gate electrode 23. The channel layer 20 is formed on the gate stack 19 and includes a channel region 24 and a source/drain region 25. The source/drain region 25 is formed on the channel region 24 and includes a source/drain electrode 26. The source/drain electrode 26 is formed on the source/drain region 25 and includes a source/drain contact 27. The source/drain contact 27 is formed on the source/drain electrode 26 and includes a source/drain pad 28. The source/drain pad 28 is formed on the source/drain contact 27 and includes a source/drain terminal 29.

FIG. 17A

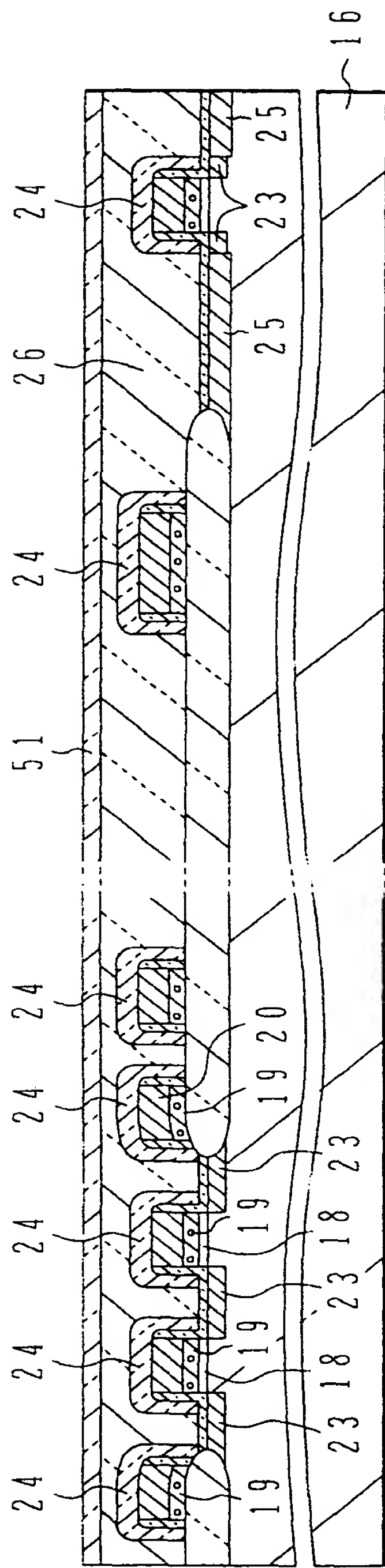


FIG. 17B

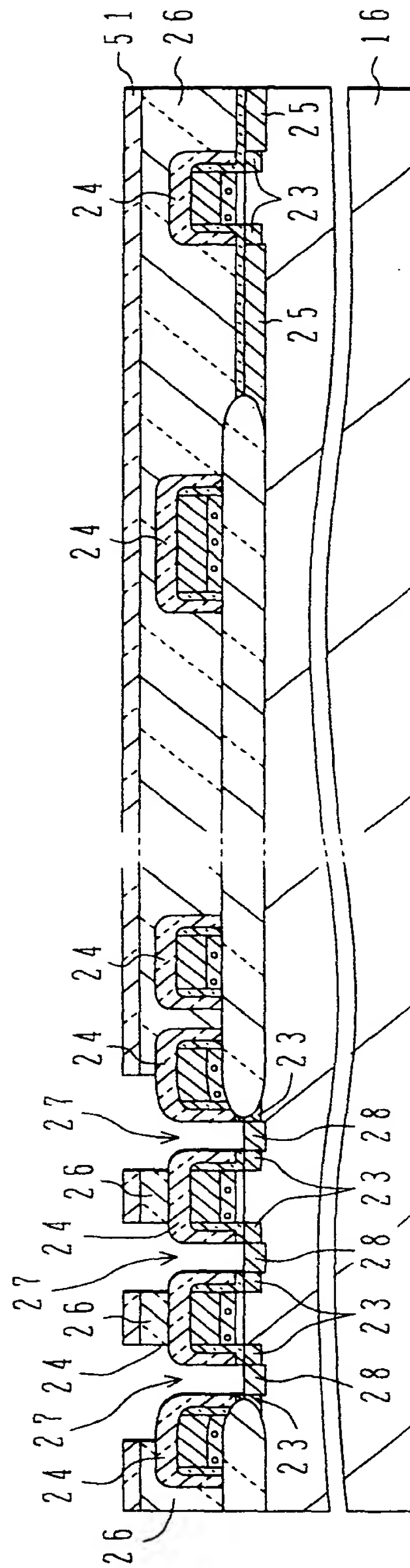


FIG. 18A

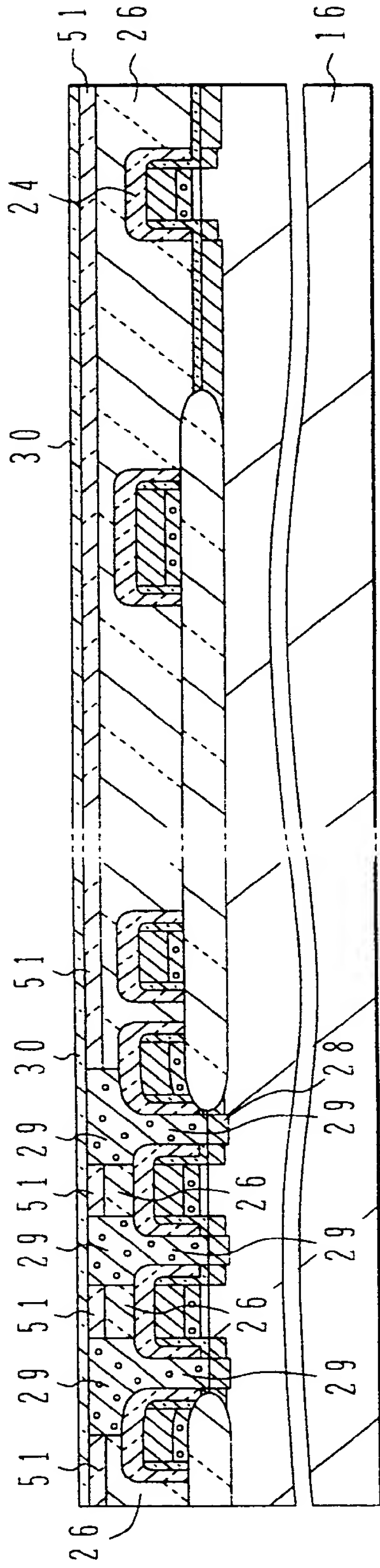


FIG. 18B

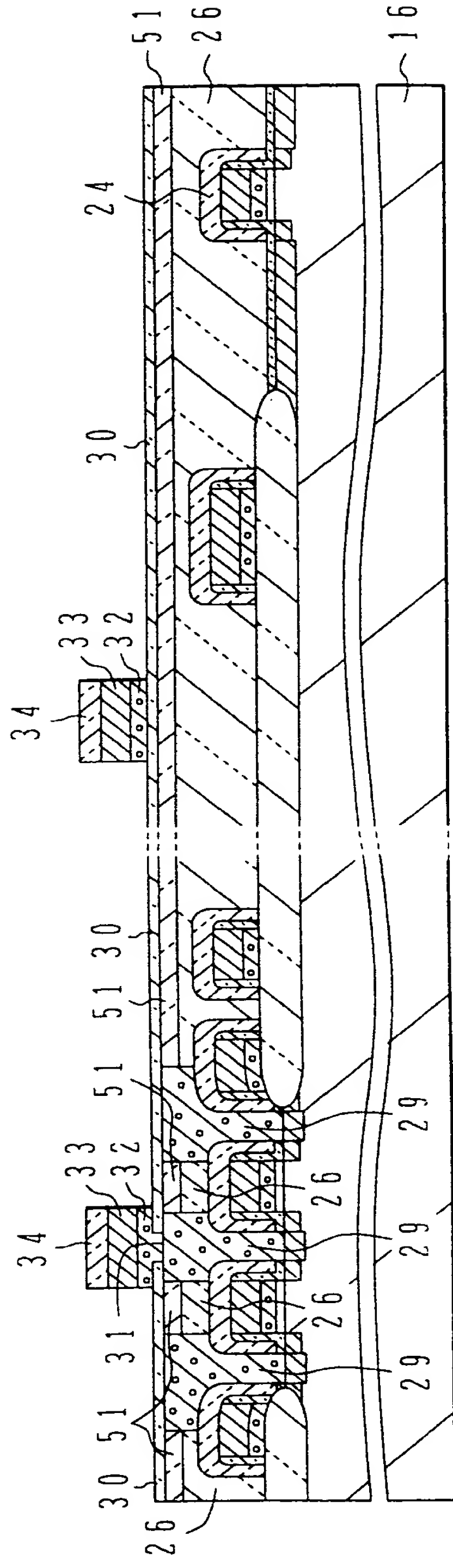




FIG.20

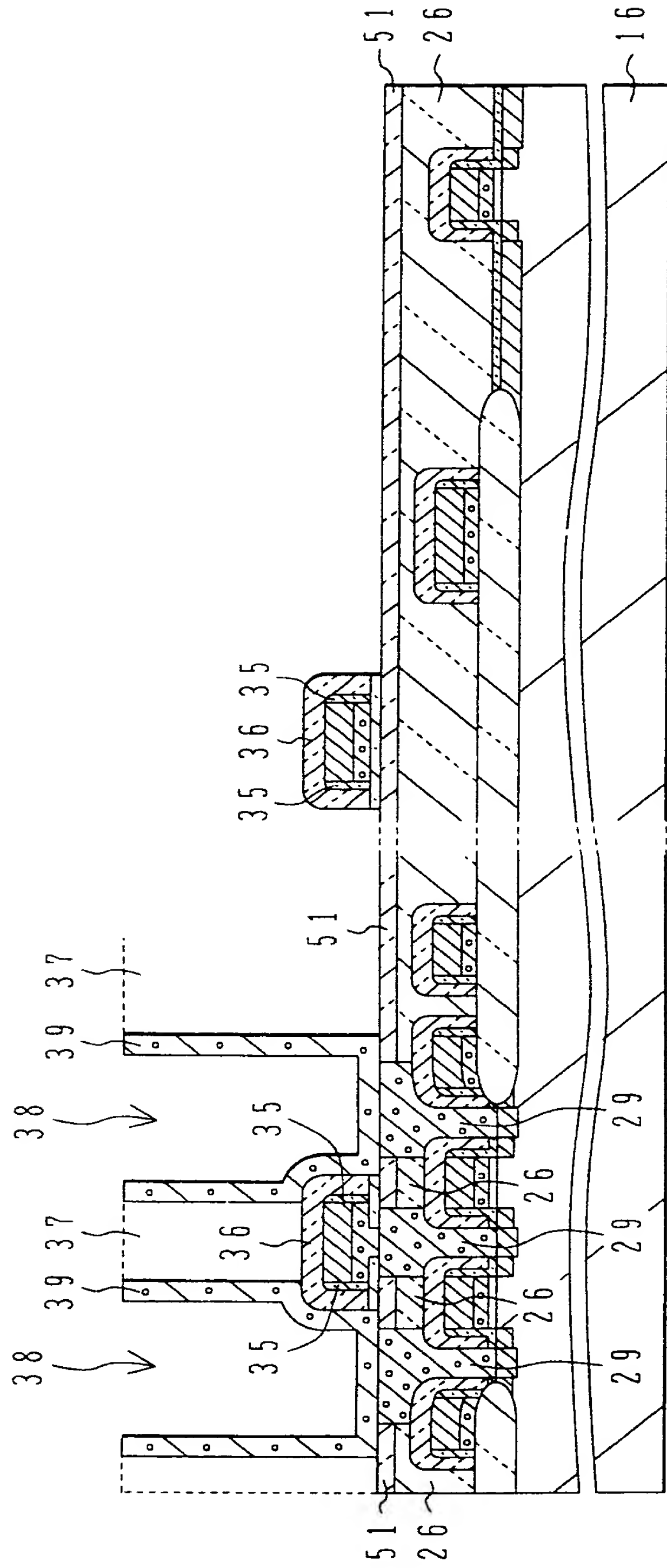


FIG. 21

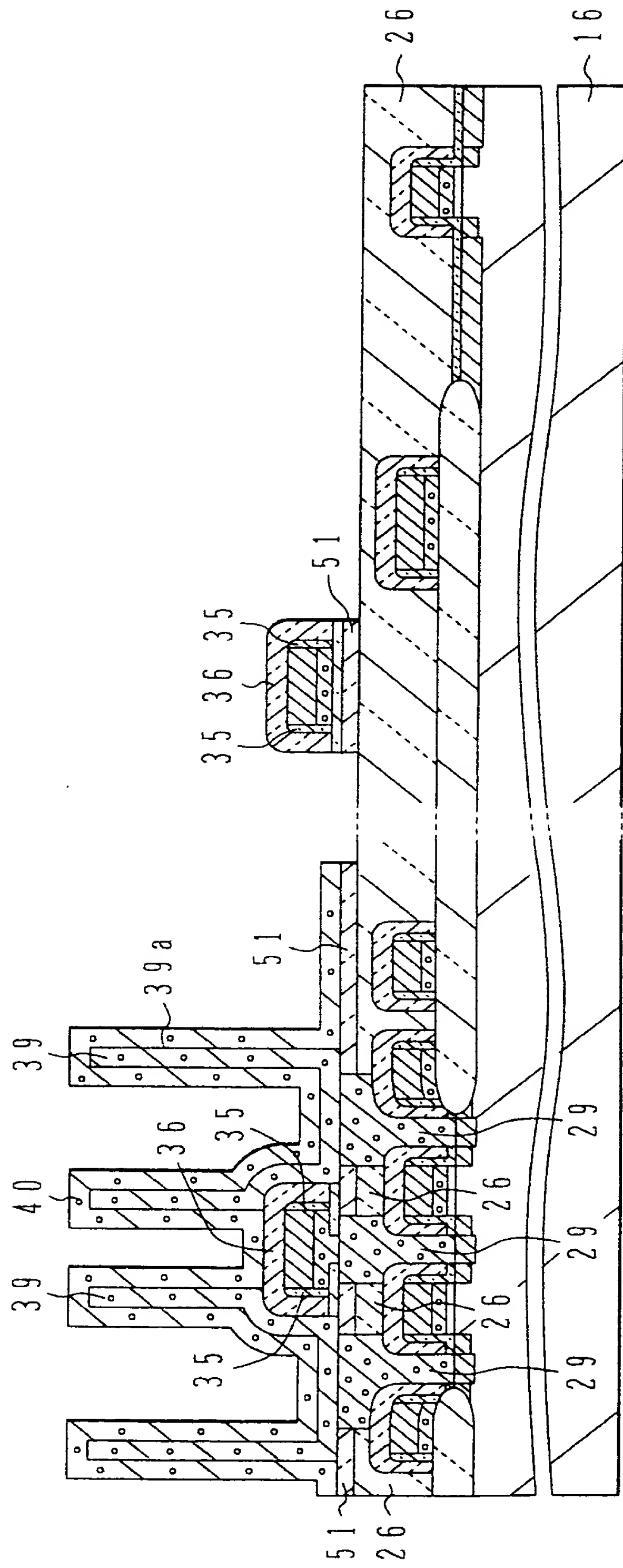
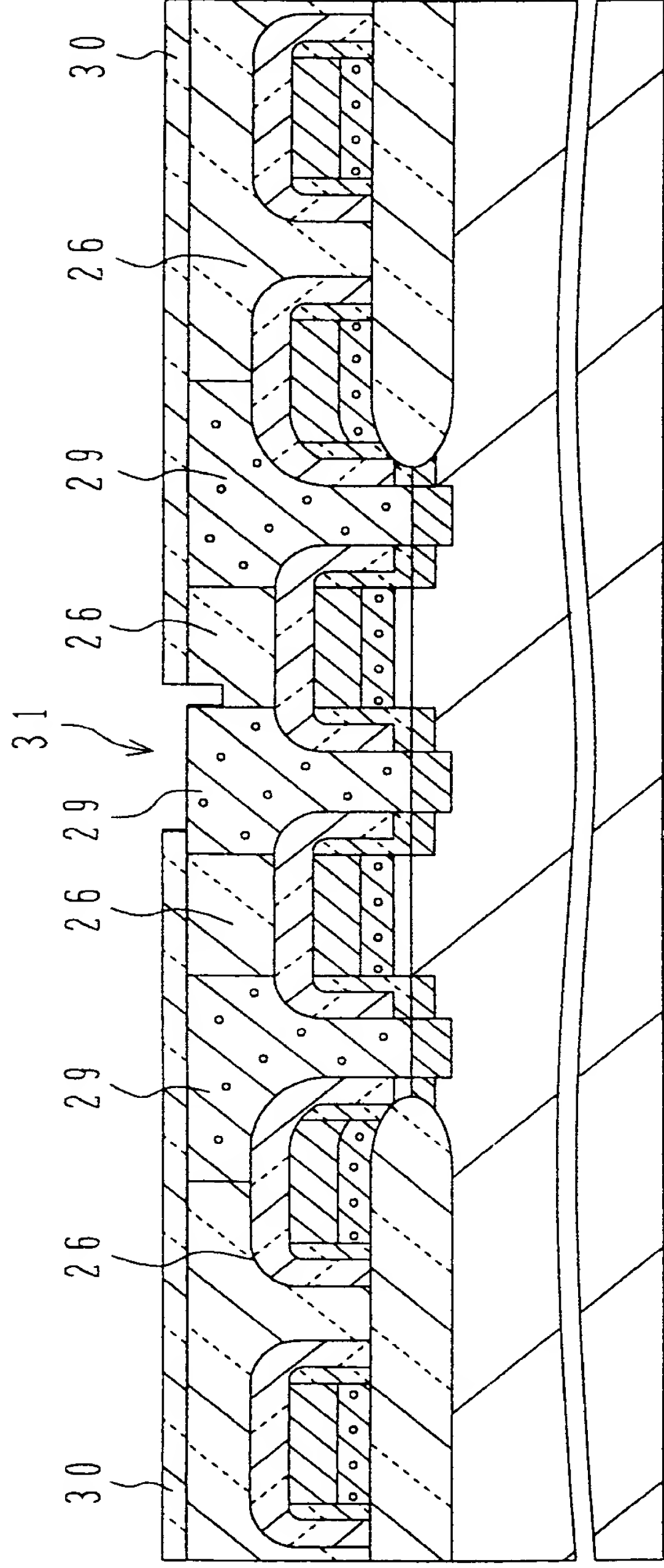
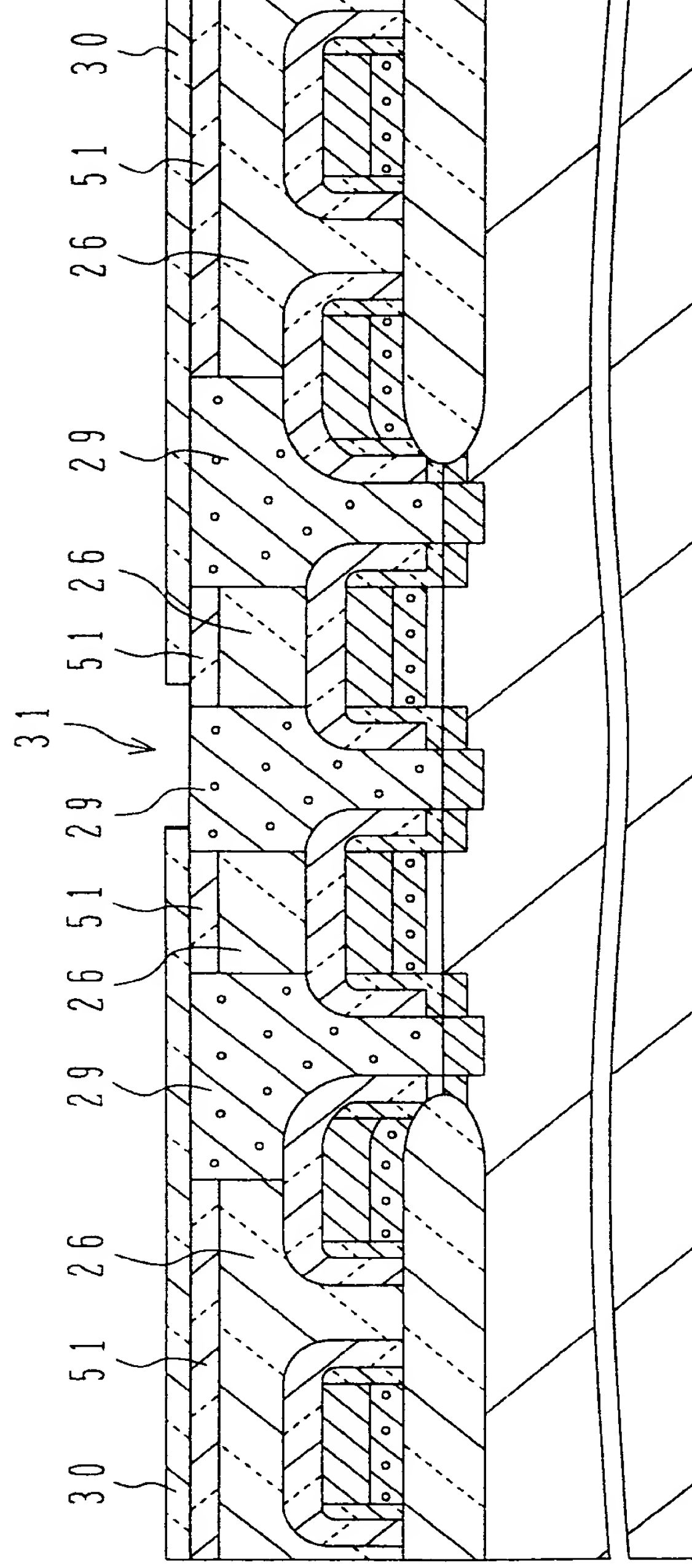
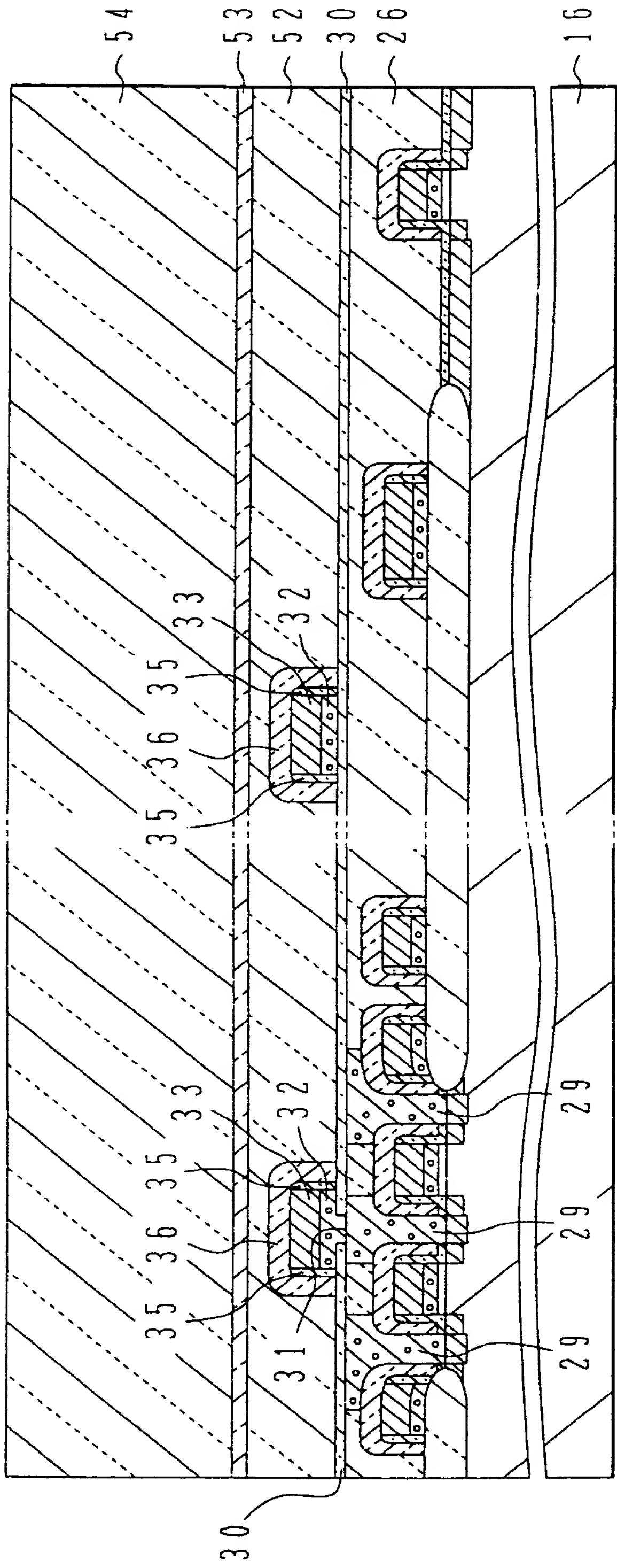


FIG. 22



**FIG. 23**







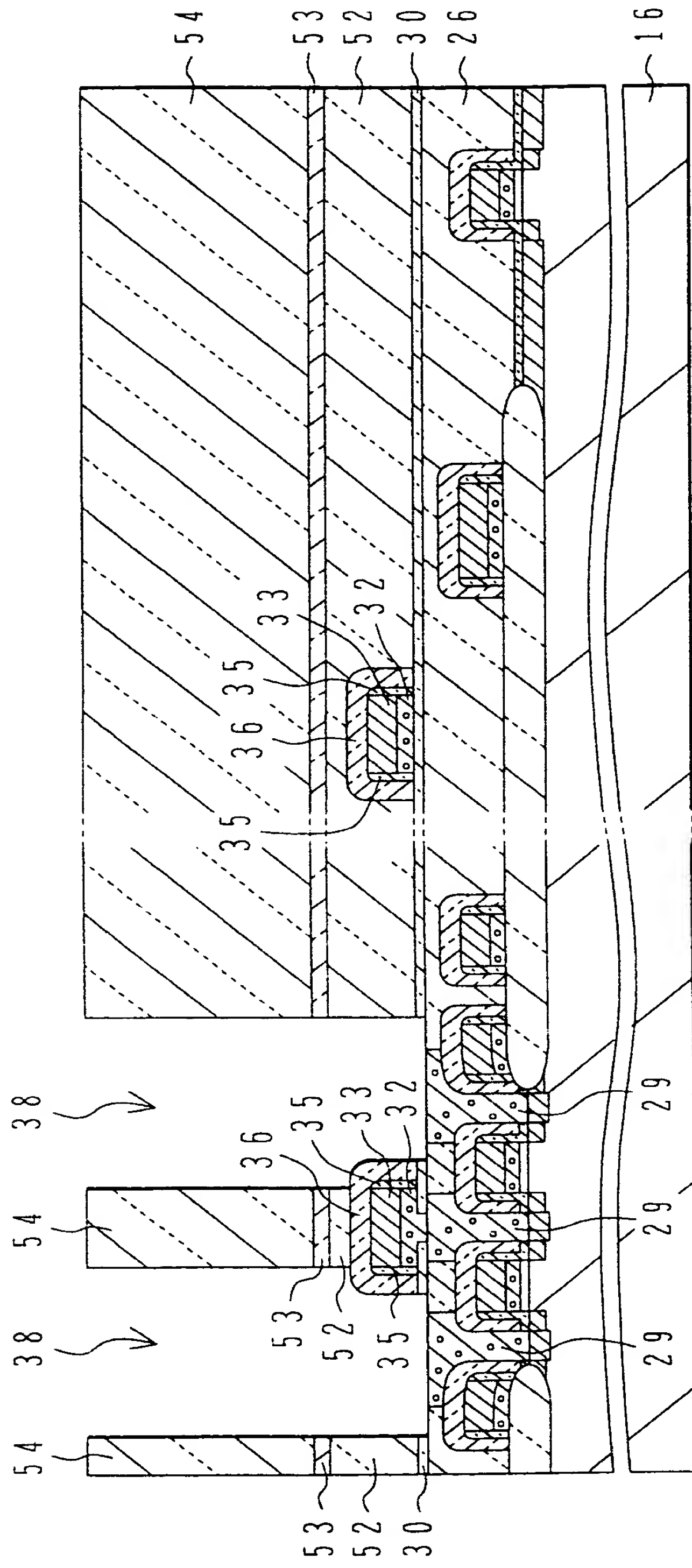


FIG. 26

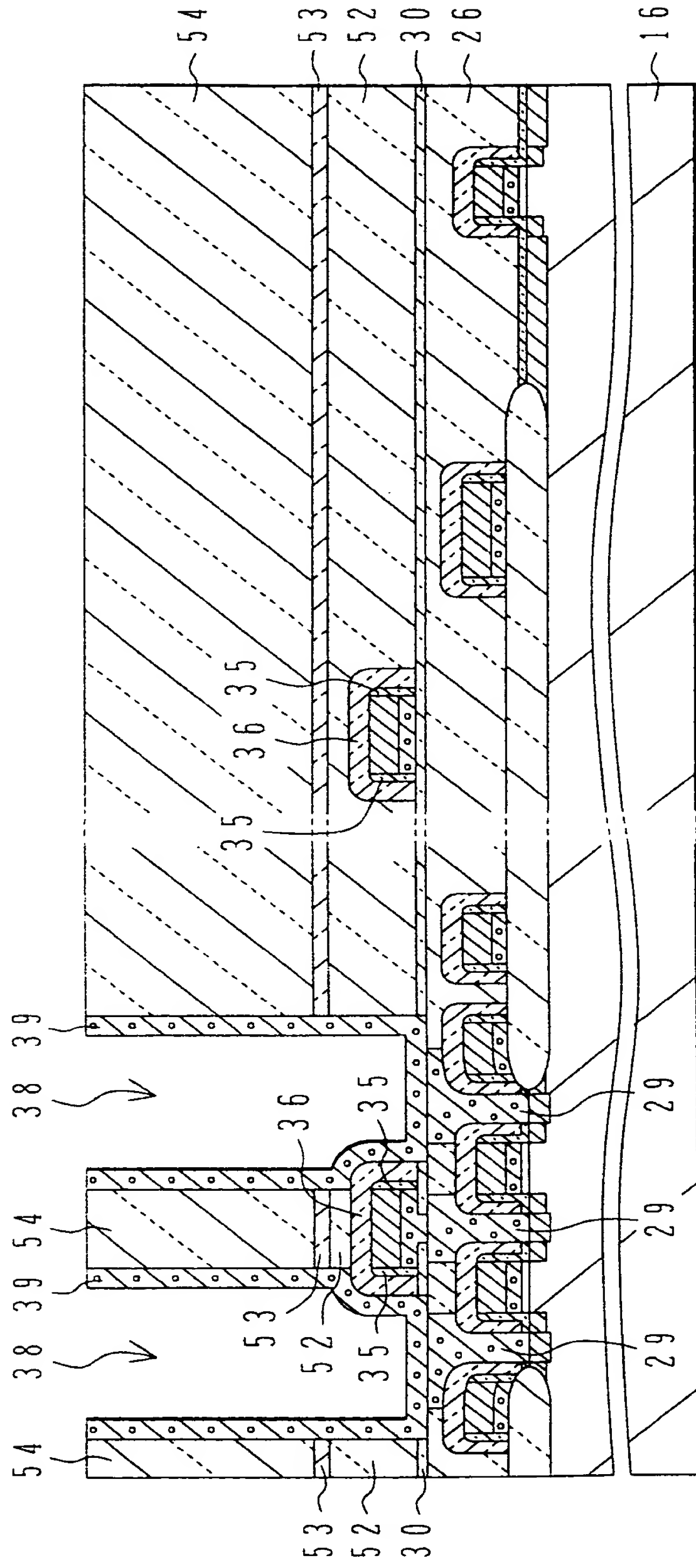


FIG. 27

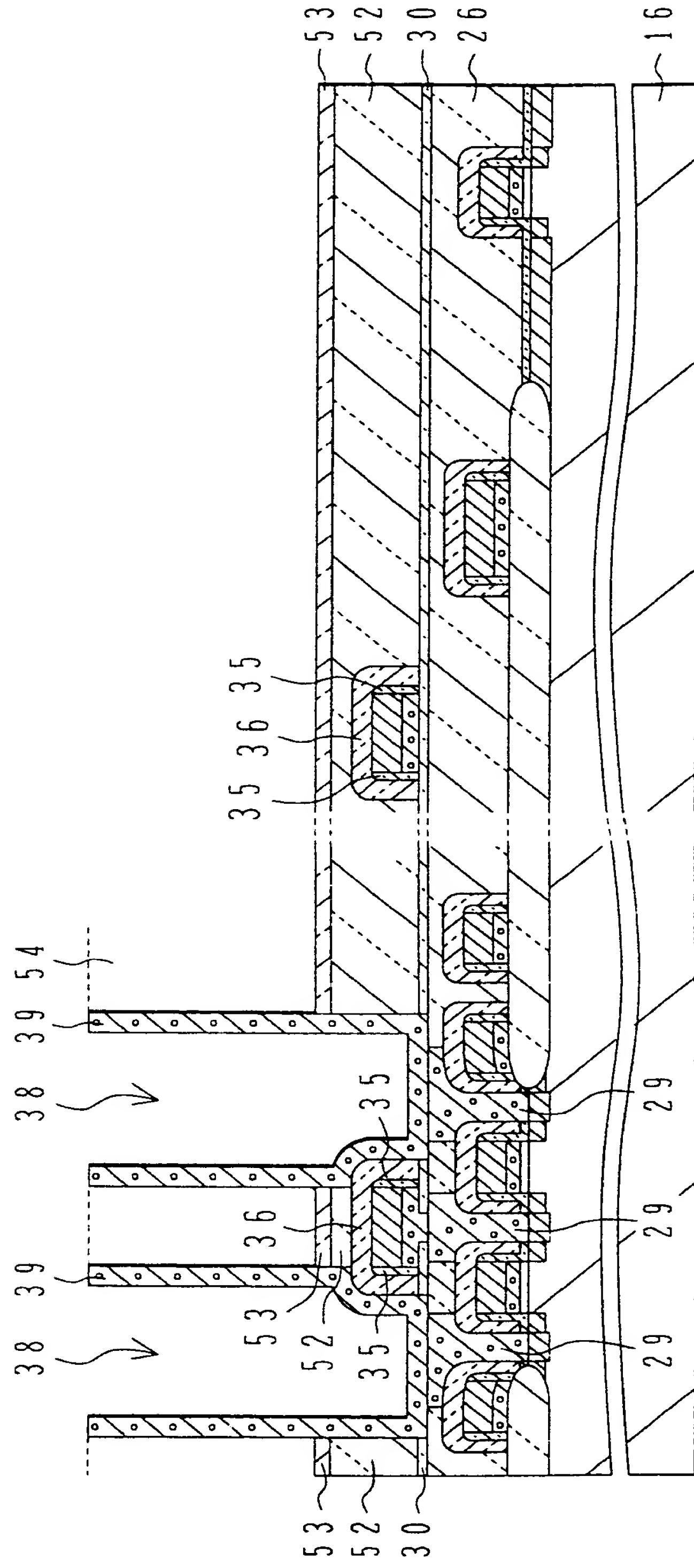
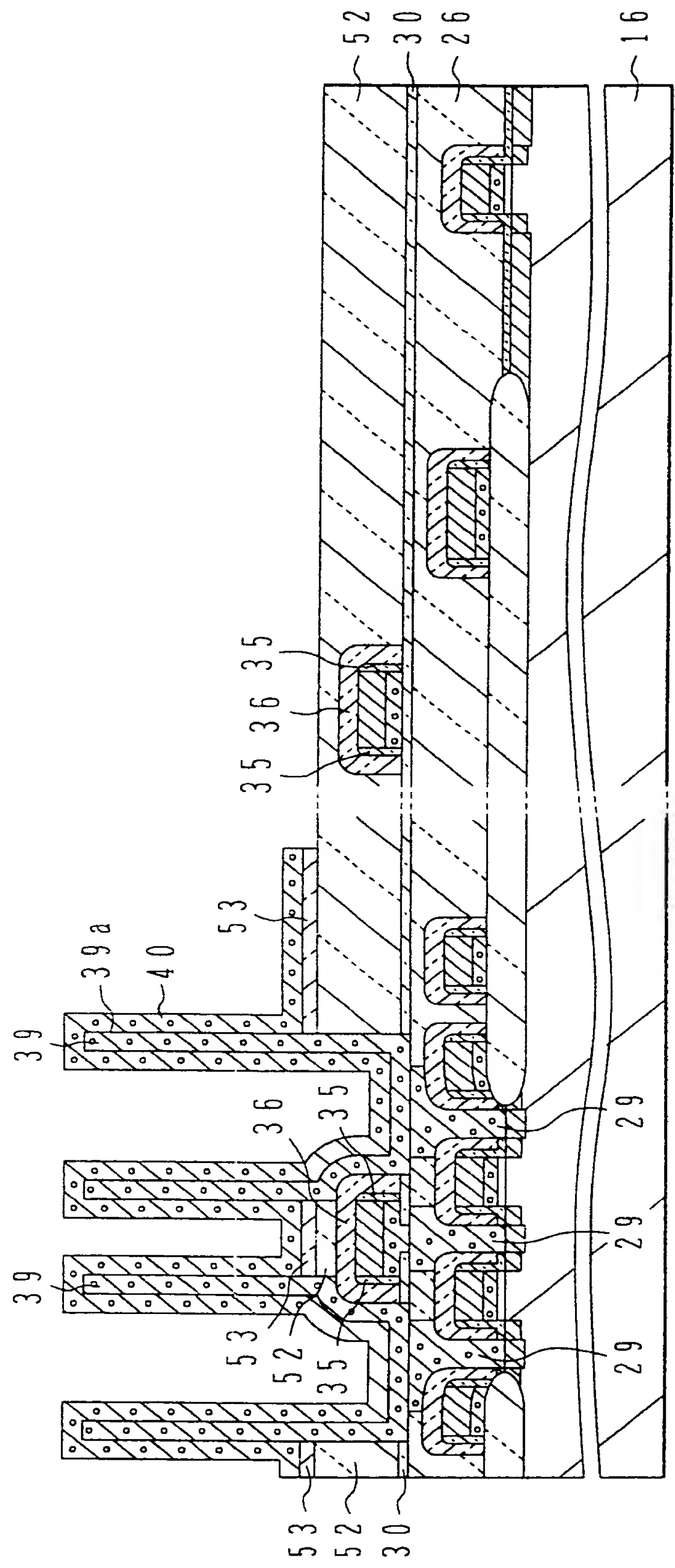


FIG. 28

FIG. 28



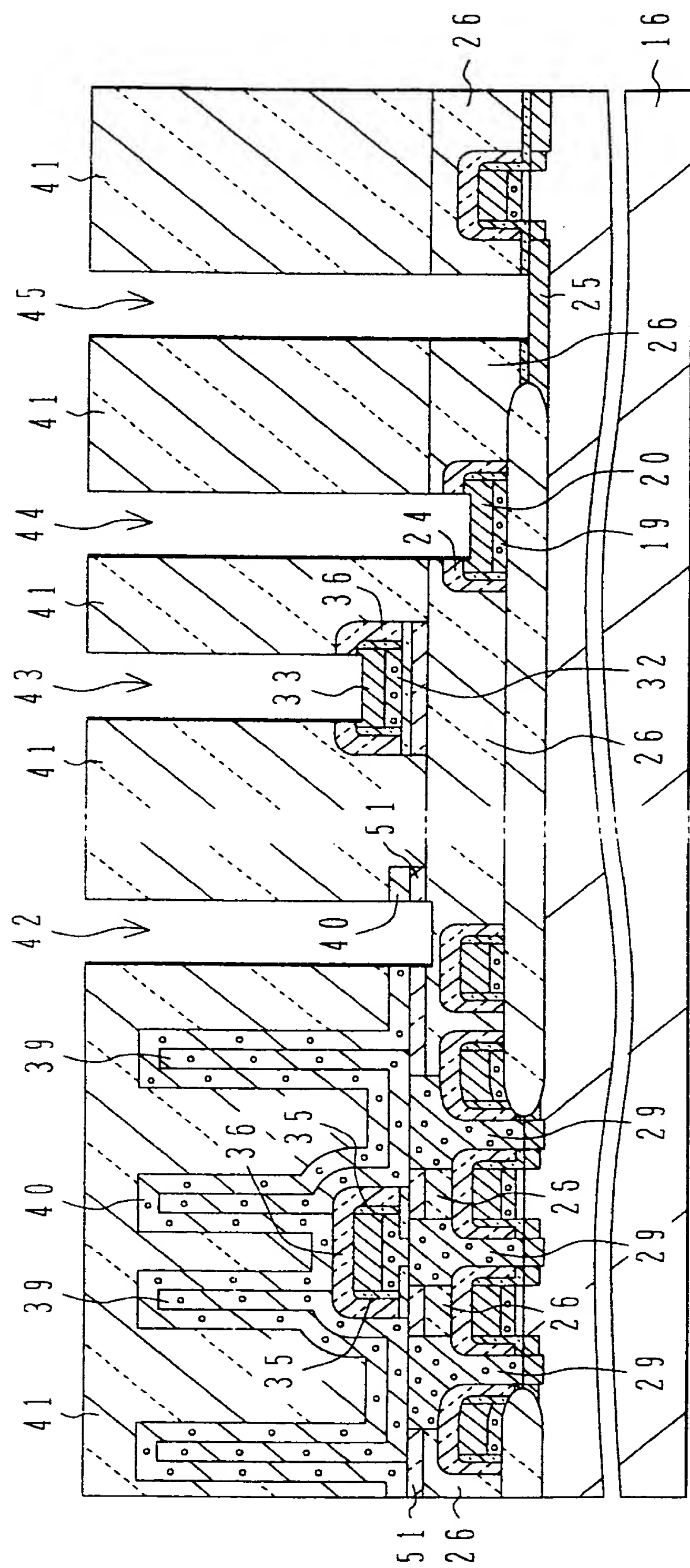


FIG.30

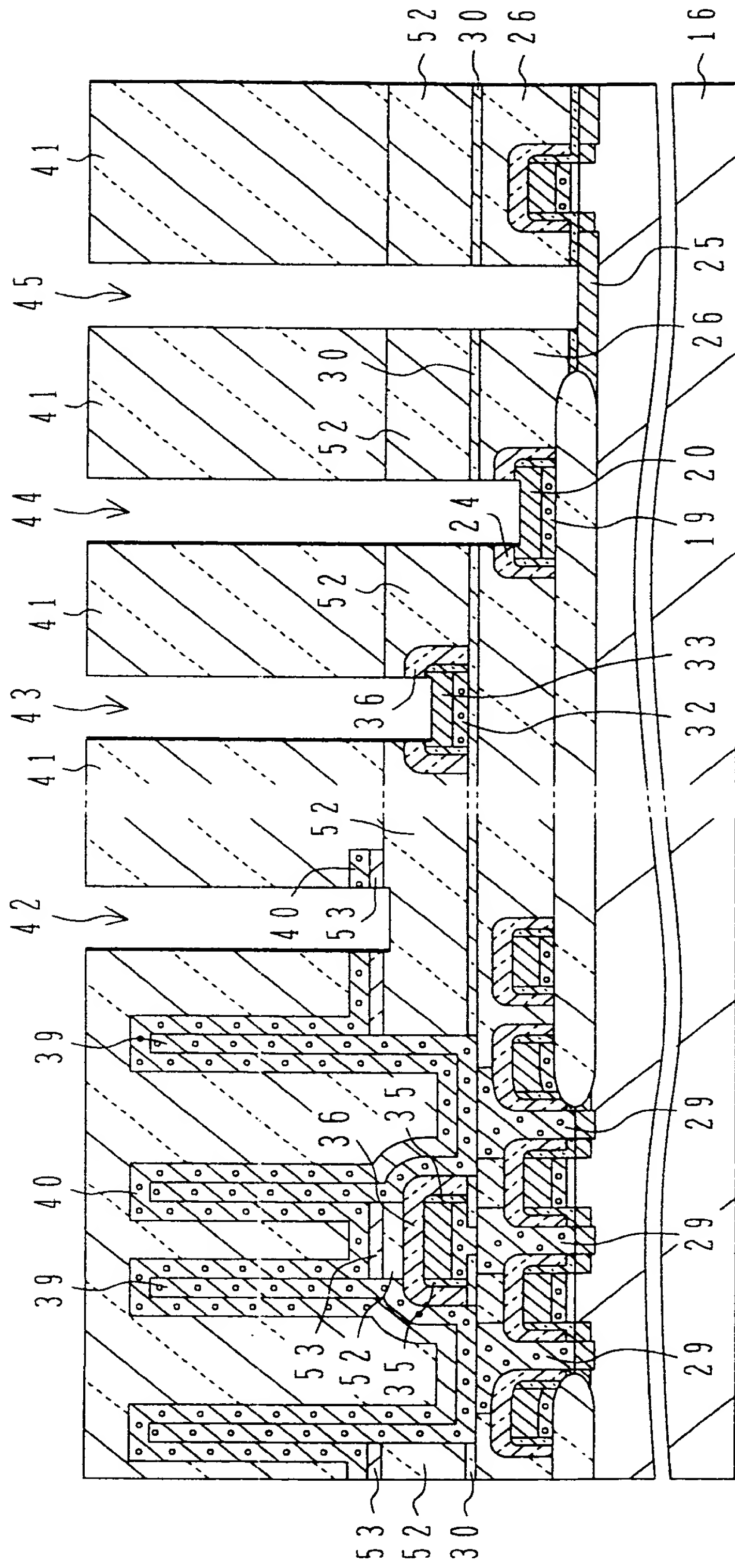


FIG. 31 is a cross-sectional view of a device 100 in accordance with the present invention. The device 100 includes a substrate 16, a first layer 23, a second layer 24, a third layer 25, a fourth layer 26, and a fifth layer 28. The first layer 23 is disposed on the substrate 16, and the second layer 24 is disposed on the first layer 23. The third layer 25 is disposed on the second layer 24, and the fourth layer 26 is disposed on the third layer 25. The fifth layer 28 is disposed on the fourth layer 26. The device 100 further includes a plurality of openings 23, 24, 25, 26, and 28, which are formed in the first layer 23, second layer 24, third layer 25, fourth layer 26, and fifth layer 28, respectively. The openings 23, 24, 25, 26, and 28 are arranged in a row, and the device 100 is configured to perform a specific function.

FIG.31

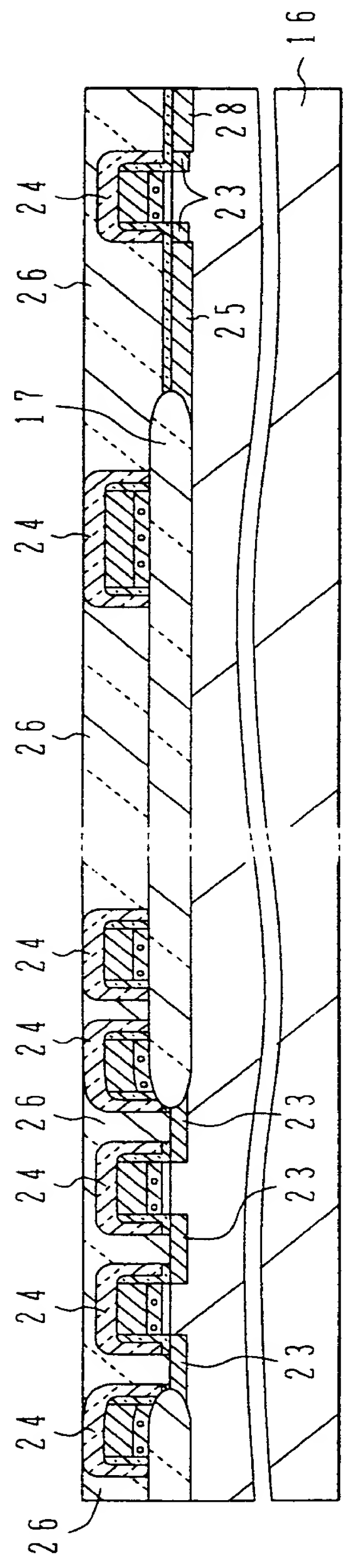


FIG. 32

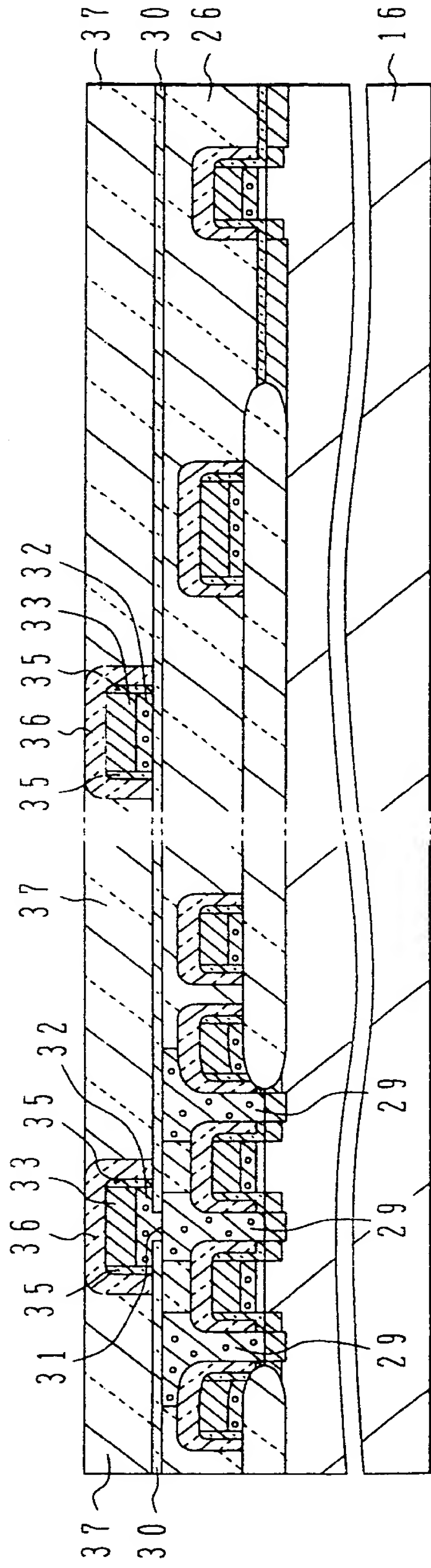
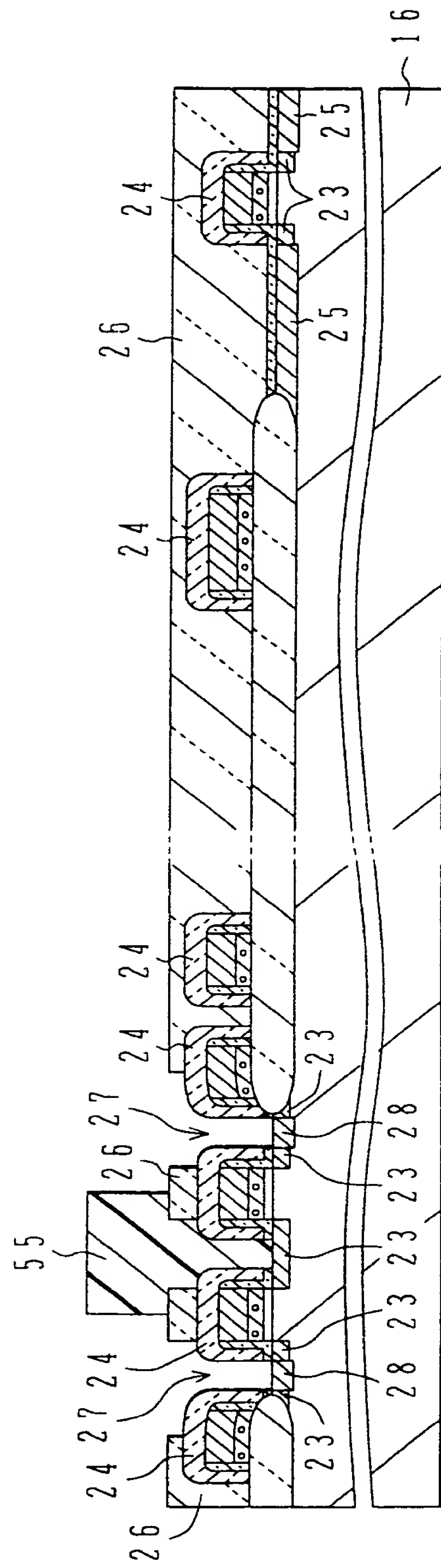
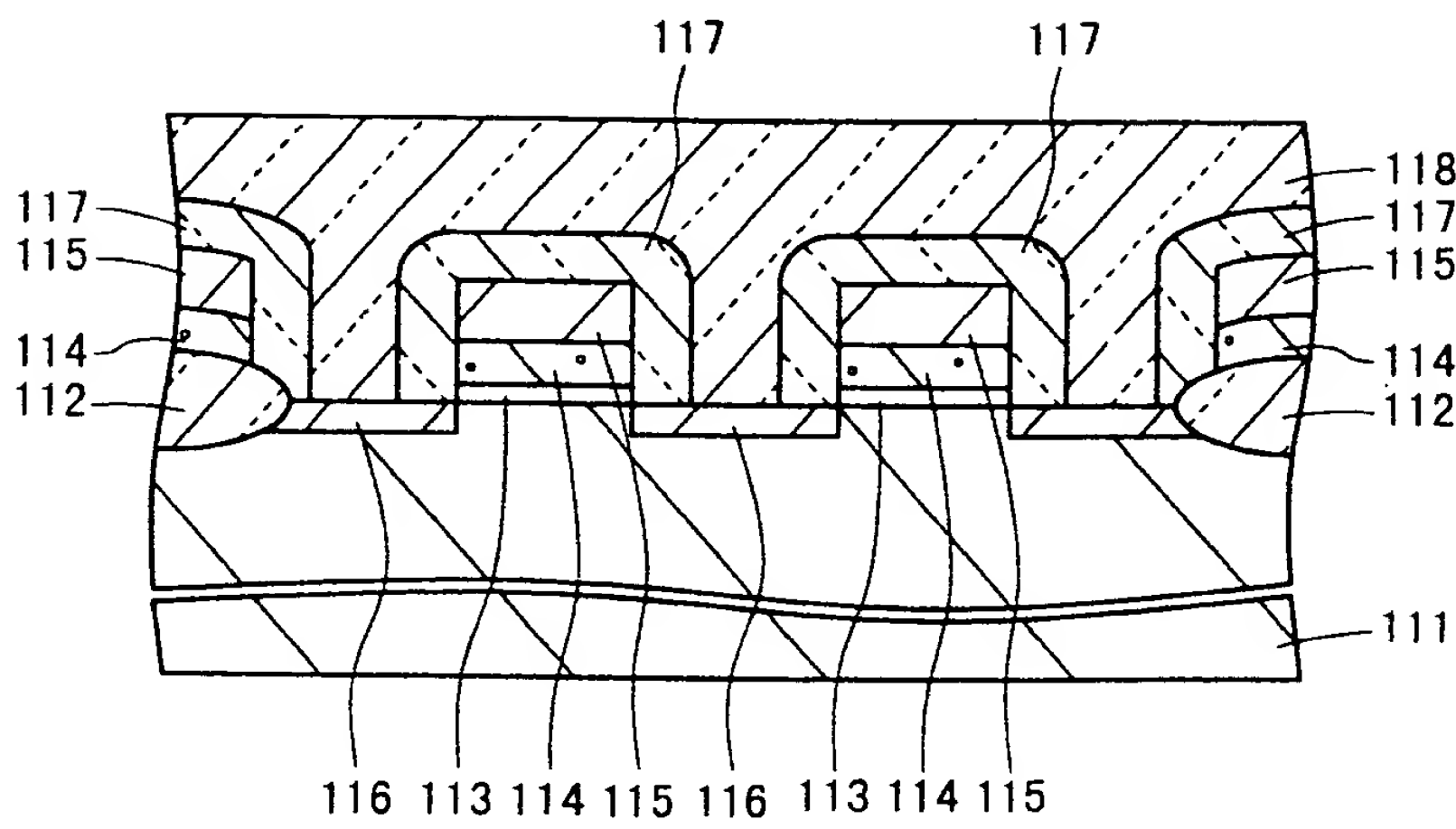




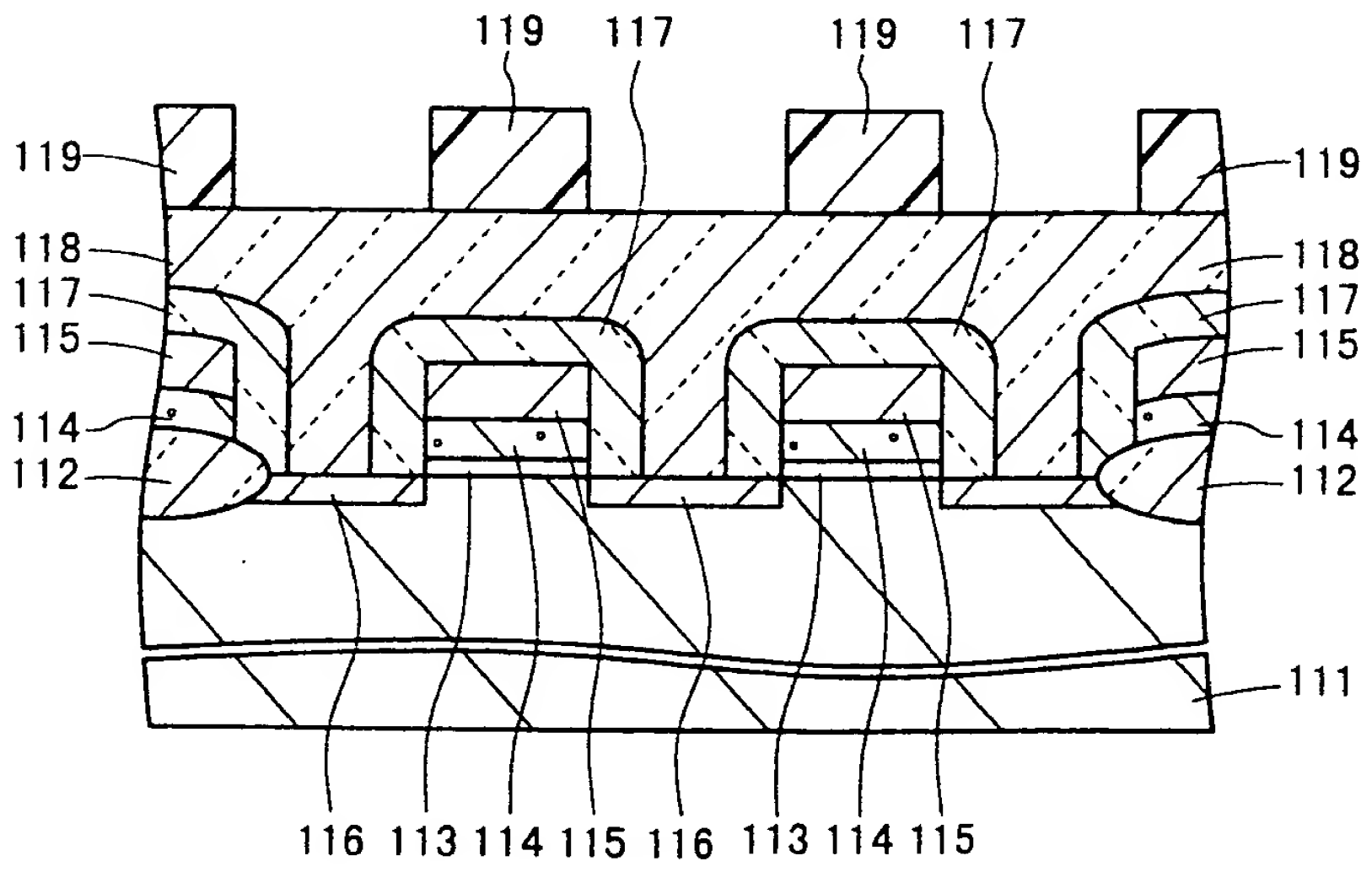
FIG. 33



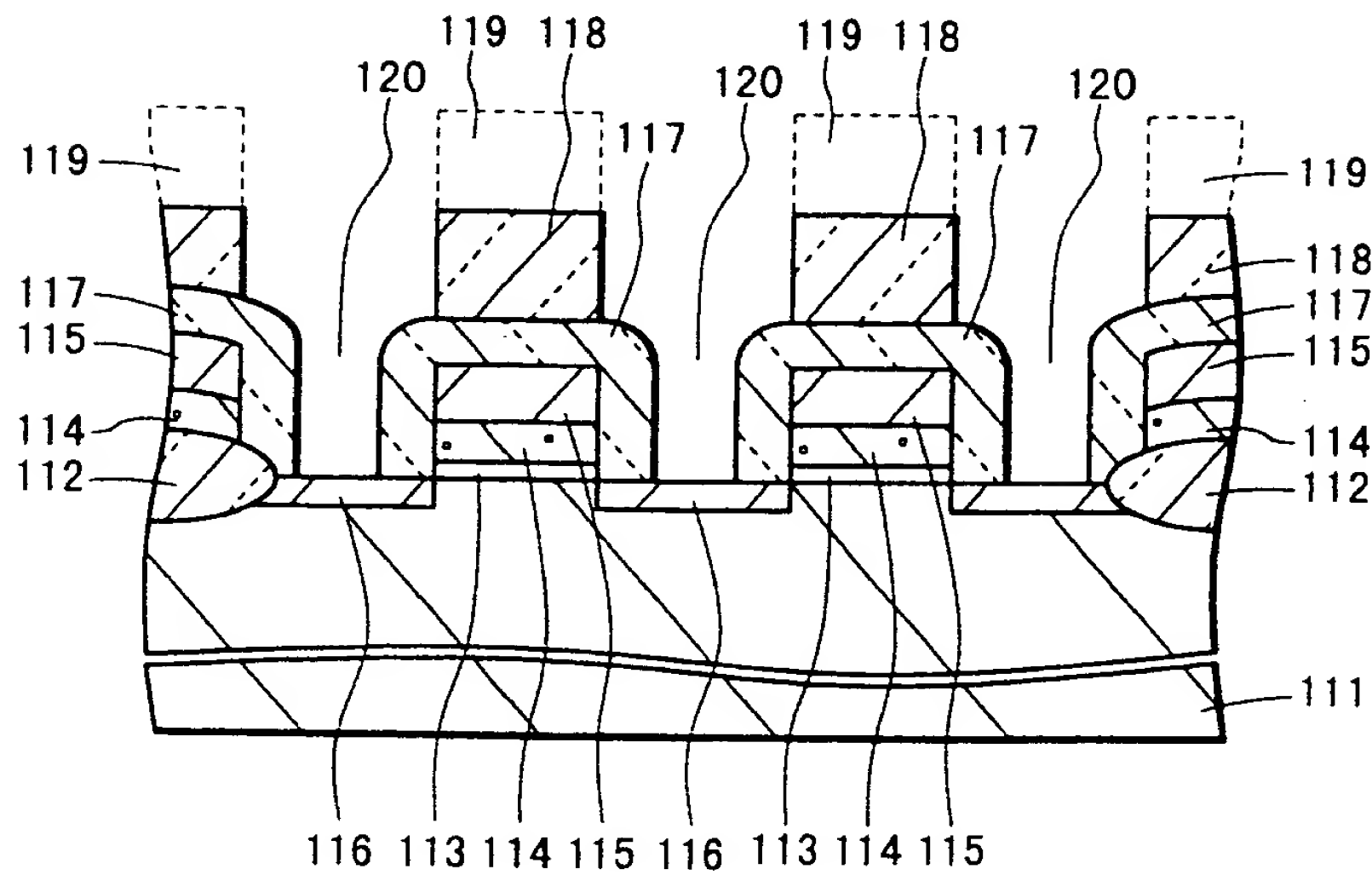
**FIG.34A**  
**PRIOR ART**



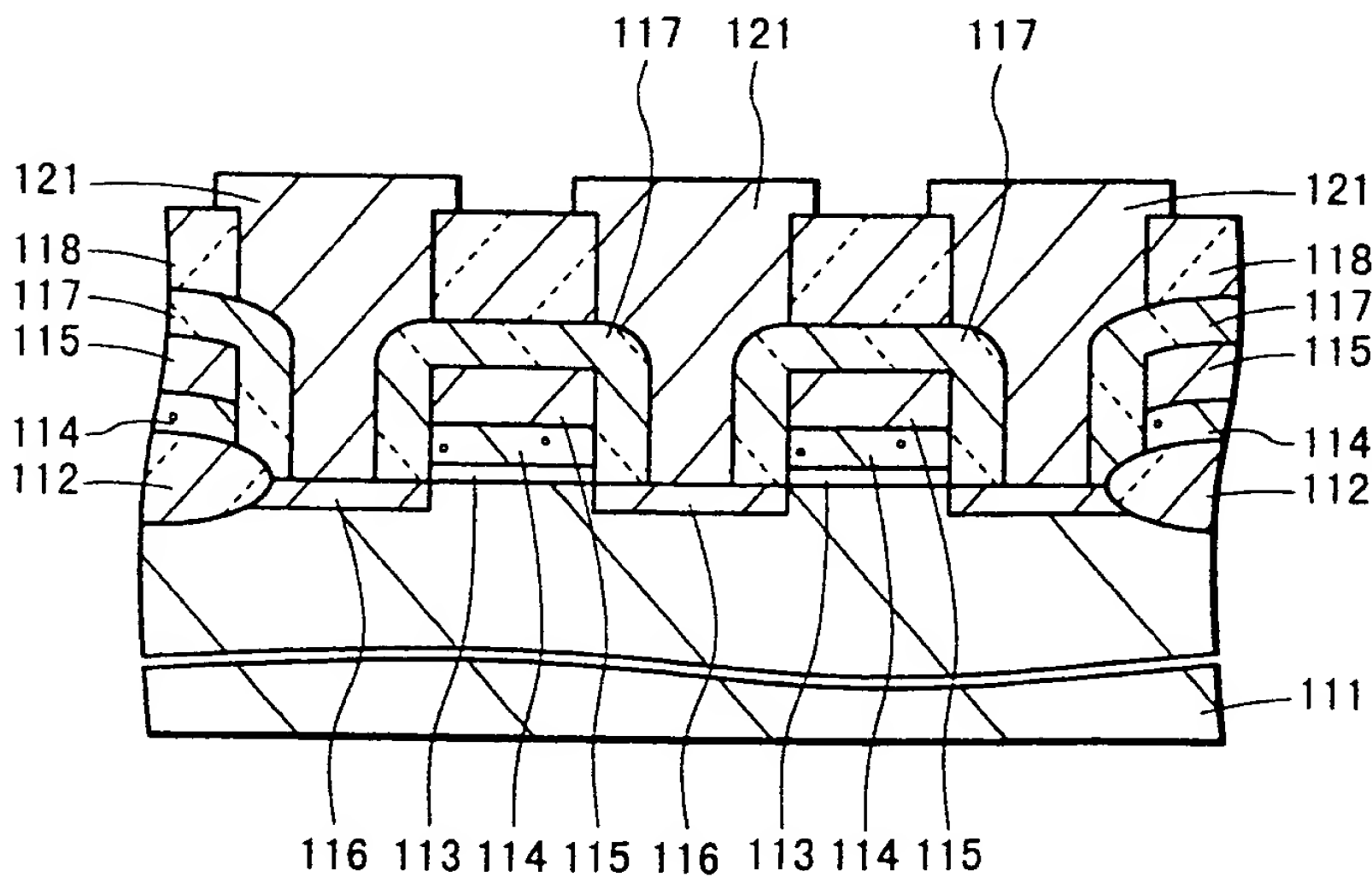
**FIG.34B**  
**PRIOR ART**



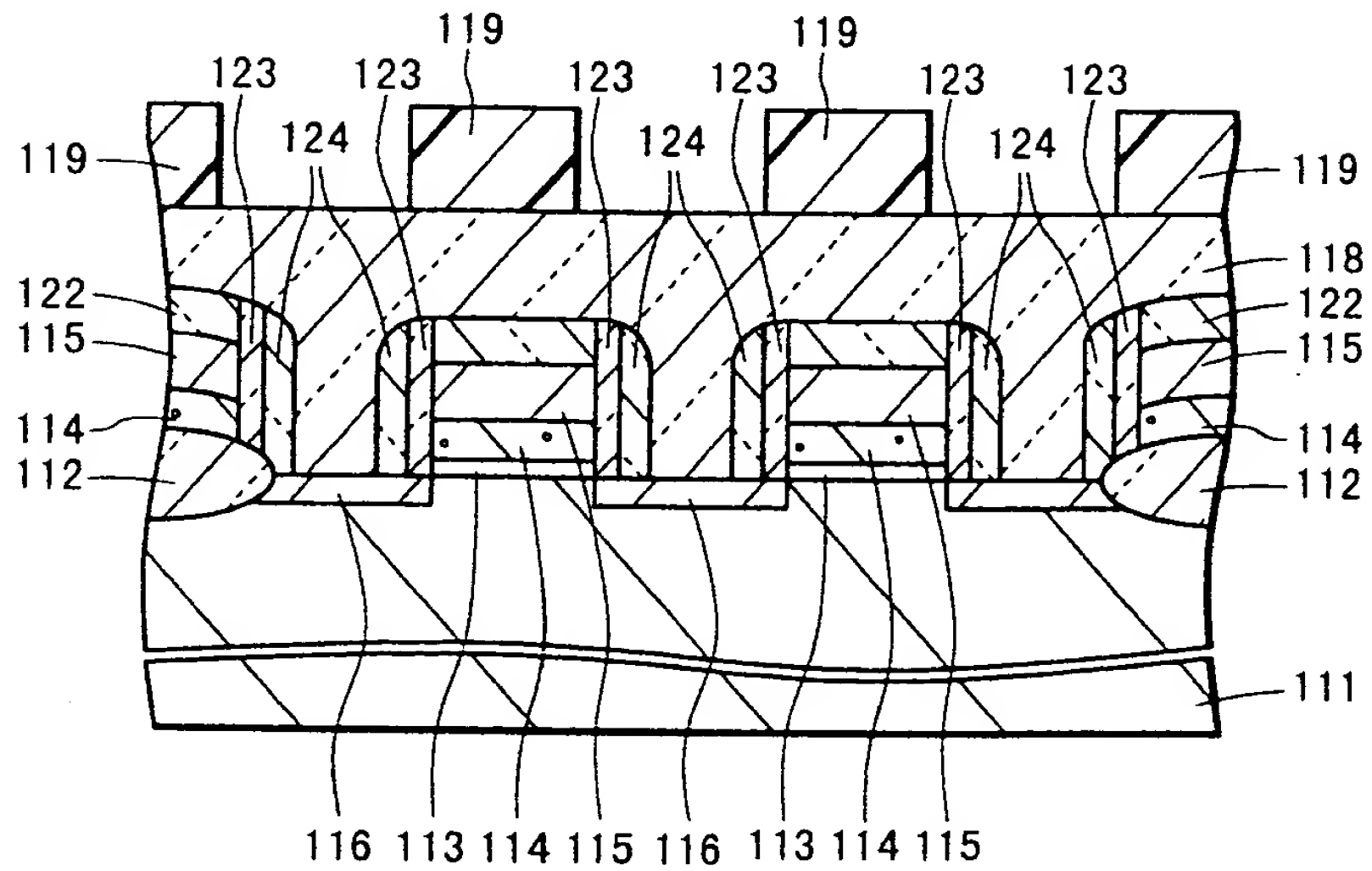
**FIG.35A**  
**PRIOR ART**



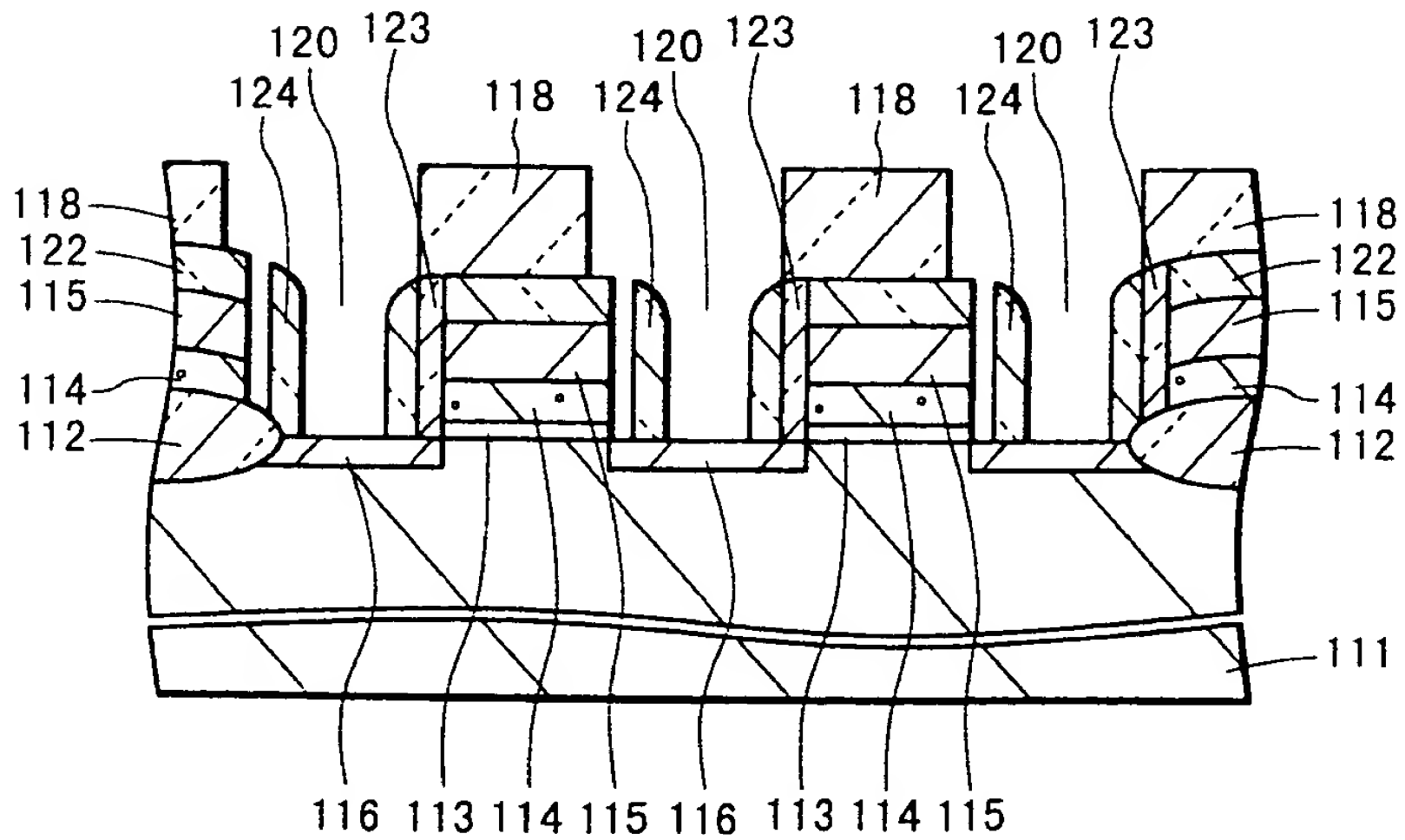
**FIG.35B**  
**PRIOR ART**



**FIG.36A**  
**PRIOR ART**



**FIG.36B**  
**PRIOR ART**



**FIG.37**  
**PRIOR ART**

